ECOLOGY AND ENVIRONMENT, INC.

DALLAS, TEXAS

MEMORANDUM

To: Ed Sierra, Region VI RPO

Thru: K. H. Malone, Jr., FITOM

From: Michael Watson, FIT Chemist

Date: January 20, 1989

Subj: Preliminary Assessment for Texas and Northern Lone Star Warehouse

Company, Lone Star, Morris County, TX (TXD981158249)

TDD #F06-811-30 PAN #FTX0816PAA

1. Site Information

Texas and Northern Lone Star Warehouse Company stores and processes steel pipe and tubing. The facility is registered with the Texas Water Commission as a generator, storer and disposer of hazardous waste. It occupies a large area in Morris County, which is bounded by FM250 on the eastern perimeter and a 1.5 mile stretch of Rock Springs Road (also Cass 2975) on its western boundary. The southern boundary is unknown (Figure 1). T & N is listed as the owner of only 16.4 acres in the northern portion of the site. The rest of the site is listed as belonging to Lone Star Steel, T & N's parent company and past owner. On January 5, 1989, a public announcement was made over the Morris County local airways that Lone Star Steel had now divided itself into seven independent corporations, three of which were new. As a result, the current ownership of T & N is unknown.

T & N is located in the drainage area of the Cawhorn Creek Basin, Latitude 32°57′14"N, Longitude 94°39′20"W, three miles northeast of the town of Lone Star in Morris County. Lone Star has a population of 2,023 and uses water from the Lake of the Pines for domestic, industrial and irrigation purposes (Reference 1). There are records of wells in the area (Reference 2; Reference 3). Most, if not all, are considered to be inactive or abandoned at this time.

Lone Star Steel has been in operation since 1942 (Reference 4; Reference 5), but the date of Texas and Northern's creation is unknown. There are at least three Site Waste Management Units (SWMUs) at T & N: an above-ground tank for the storage of heavy equipment, locomotive and vehicle oils, a container storage area for waste solvent, and a facility landfill (Reference 6). T & N generates used oils, metals, and spent solvents. T & N has manually disposed of an unknown quantity of waste

Preliminary Assessment for Texas and Northern Lone Star Warehouse Company (TXD981158249) Page 2

solvent into the landfill. The number of times that this has occurred is also unknown. The solvent, a waste thread lubricant, contains lead and zinc. The wastes generated and managed by T & N are flammable and toxic.

2. Background/Operating History

The acreage utilized by T & N has been the site of extensive strip mining operations for iron ore. Erosion, where unchecked by the planting of pine trees, has been extensive (Photographs 4 through 7).

Texas and Northern's current layout, including the actual perimeter of the property, the location and number of the SVMUs, and the actual threat from the on-site SVMUs cannot be determined from an off-site reconnaissance inspection. T & N is an active epee yard (SIC 3495), secured by a 24-hour guard station and an eight foot barbed wired, chain-like fence. All of the possible entry points to T & N are guarded or labeled and secured with chain and locks. Unauthorized entry is not possible.

Potential problems exist due to the low pH of the ground water. The ground water from the upper layers of the Cypress Springs aquifer is known to have corroded the plumbing of the local residences when it was used as supply of drinking water (Reference 2). Surface water also assumes an acidic pH shortly after contact with the overlying humus. Either could bring undissolved metals into solution and allow migration via available water pathways.

Existing analytical data show the plant's soils to be stained with random deposits of lead and zinc (Reference 7). Chromium of up to ten times the level allowed in the drinking water standards has been discovered by TWC in samples taken from two of the monitoring wells located around the landfill (Reference 8). TWC's analytical data shows that problems exist, but the extent of the problems is not identified.

An off-site reconnaissance inspection indicated that there is cooperation between Texas and Northern and the Mount Pleasant Soil Conservation Office. The dense growth of pine trees has checked soil erosion on the southern perimeter of the site. The effect caused by a lack of vegetation is evident on the northern portion of the site (Photographs 4 through 7).

TWC files list a remedial action against T & N for violations of the Texas Solid Waste Disposal Act and the regulations of the TWC. The penalty levied against T & N on September 10, 1986 was a \$5,420 fine (Reference 9).

3. Waste Containment/Hazardous Substance Identification

There is not much data available to characterize the quantity or to identify the type of waste either in the landfill or on-site. A failure to maintain disposal records was one of the reasons that T & N was fined in September 1986. TWC's on-site inspection provides the only available data. Lead and zinc were discovered in soil grab samples but that is

Preliminary Assessment for Texas and Northern Lone Star Warehouse Company (TXD981158249) Page 3

the extent of the analysis. The source of these metals is the corrosion inhibiting lacquer from the steel pipe that T & N stores and processes. Chromium was discovered in water samples taken from two of T & N's four monitoring wells. The analysis was of limited extent. The origin of the chromium can only be surmised to be the ore tailings.

A spring arose on the south end of the landfill. T & N dug a trench to allow the spring water to escape (Reference 6). The landfill has no containment system.

4. Pathway Characteristics

a. Air Pathways

The organic solvent which contained the lead and zinc contaminants is assumed to have an oil of low volatility. The soil around T & N is of a reddish-yellow granular type. Air pathways are not considered to be of concern.

b. Ground Water Characteristics

The ground water of the area is attributed to the Cypress Springs aquifer. The aquifer is considered to be composed of three layers or zones which are interconnected hydraulically and function as a single unit. The upper layer is of a low pH (5 to 6) and contains iron in solution. The middle layer is less acidic, but still contains iron. The lower layer (500-625 feet) is neutral and has given up its iron content. This layer is suitable for drinking purposes.

Specific geological conditions are shown in Table 1.

With a normal annual precipitation of 46 inches and water table of less than 60 feet (Reference 2; Reference 3), contamination of the ground water is a possibility.

c. Surface Water Characteristics

The surface water flow off-site would be into the Cawhorn Creek Basin. The migration of contaminants would then follow an easterly route for fifteen downstream miles into Cass County. There are no drinking water intakes (Reference 1), recreational usage (Topographic Composite), or potential food chain impacts along this route. With a two year, 24-hour rainfall of 4.6 inches and a low flood potential, the concern of hazards from the migration of dissolved metals and contaminants is of low priority.

d. On-Site Pathways

The on-site exposure pathway is not evaluated because the site is of a size which does not allow data gathering by way of an off-site visual inspection.

Preliminary Assessment for Texas and Northern Lone Star Warehouse Company (TXD981158249) Page 4

5. Targets

There are no known ground water wells in use within four miles of the (Reference 1). The municipal water source for the City of Lone is the Lake of the Pines, located five miles southwest, and away from the Cawhorn Creek Basin, the off-site drainage pathway. There are no drinking water intakes along the 15-mile surface water migration path There are no known the site. recreational uses of this The population within four miles of the site (air intermittent creek. targets) is 4,276, including the residents of Huges Springs and Lone The nearest single family residence is located 100 feet from the site boundary (Reference 10). The area is the home of Trillium Texanum, an endangered plant species that grows in seepage areas and a plant community composed of the water oak and the willow oak (Reference 12). Daingerfield State Park is four miles northeast of the site.

6. Other Regulatory Involvement

There is no other known regulatory involvement concerning Texas & Northern. EPA conducted a PA Reassessment for Lone Star Steel. The site's location was Latitude 32°55′20"N, Longitude 94°42′57"W, 2.5 miles southeast of Lone Star, Texas.

7. Conclusions and Recommendations

An unknown quantity of toxic metals has been placed in a landfill on-site. The type, number and location of other possible on-site SWMUs is unknown. There are residences within 100 feet of the plant's boundary, but this is not of concern because the low mobility potential of the known site contaminants make the probability of release to the air pathway low. There are no ground water targets and there is little use of the surface water along the migration pathway.

The FIT recommends that this site receive no further action.

8. FIT Management Review/Concurrence

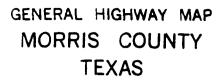
9. EPA Recommendation for Further Action

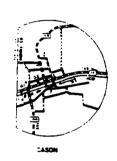
Contact Log

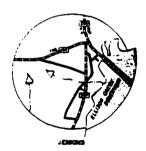
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Facility ID: FTX0816PAA

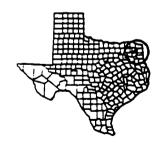
To Dorinda Sullivan	Texas Parks & Wildlife	(512) 387-4992	12-29-88	Submit maps
From Dorinda Sullivan	Texas Parks & Wildlife	(512) 387-4992	01-06-89	Endangered Species
				Cass & Morris Counties
	TWC	(512) 463-7830	12-20-88	Location of People
				Assoc. w/ T & N File
To Michael Morris	TWC	(512) 463-7761	12-30-88	Located
From Michael Morris	TWC	(512) 463-7761	12-30-88	Returned Call
To Michael Morris	TWC	(512) 463-7761	01-03-89	2nd Attemp
From Michael Morris	TWC	(512) 463-7761	01-03-89	Received Large
				Amt. of information
				about T & N
To Kinch Andress	mu.			
To Kieth Anderson	TWC	(214) 595-546	12-30-89	Request for
	•			Hydraulic Conductivity
Program Windle Actions				Data
From Kieth Anderson	TWC	(214) 595-5466	12-30-89	Returned Call
From Kieth Anderson	TWC	(214) 595-5466	01-03-89	Received a $\#$ of Ref.
To Ronda Hall	Mannia Court	(011) (15 011)		
10 Rollda hall	Morris County	(214) 645-2446	01-10-89	No Contact
T- D1- N-11	Tax Assessment			
To Ronda Hall	Morris County	(214) 645-2446	01-10-89	Will send map
				w/ T & N overlay

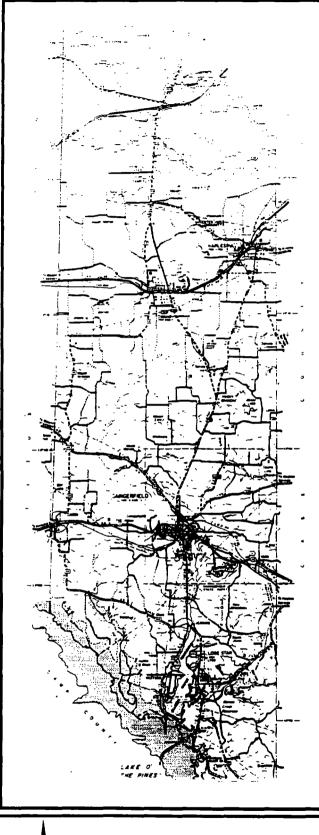












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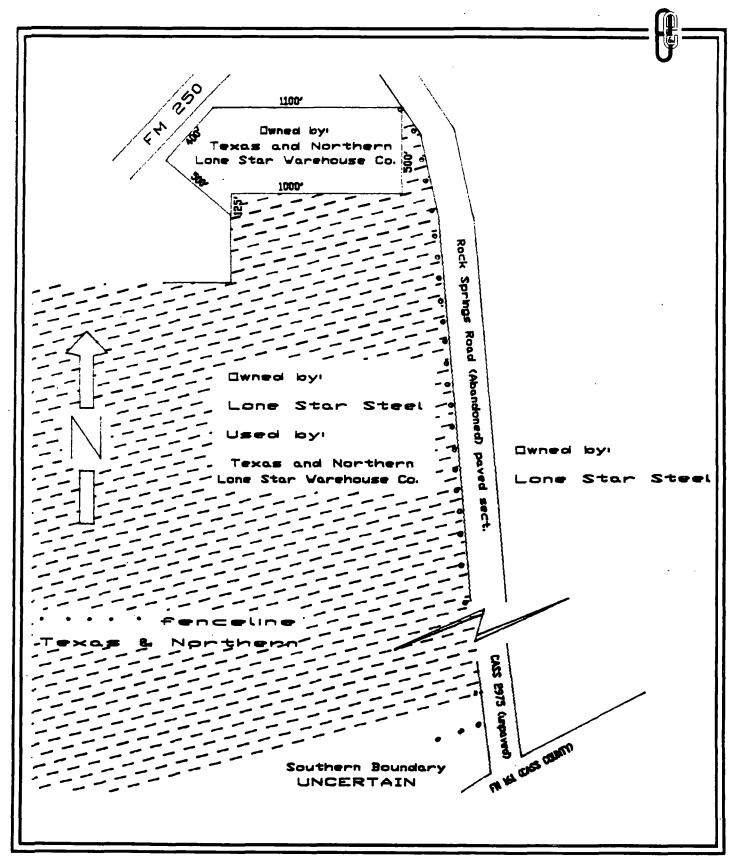


FIGURE 1
SITE LOCATION
TEXAS & NORTHERN LONE STAR WAREHOUSE CO.
LONE STAR, TEXAS
TXD981158249

TABLE 2 HYDROGEOLOGIC INFORMATION 1

STRATA NAME/DESCRIPTION	THICKNESS (ft.)	DEPTH TO WATER (ft.)	TYPE OF DISCONTINUITY 2	SOURCE OF INFORMATION
Alluvium & Sparta Sand/ Sand, sandy shale and clay Yields small quantities of fresh water	17 feet	40 feet	None	Drilling Log Well #TN4 T & N Warehouse TWC Bulletin #6517
Weches Green sand/ green sand, sand, clay, pyrite Yelds small quantities of fresh water	32 feet	8 feet		Drillings logs Well #TN-1 to 4 TWC Bulletin #6517
Queen City Sand/fine to medium sand, shale, silt and impure lignite. Moderate to large quantities of water	210 feet	0 feet		TWC Bulletin #6517 Cypress Aquifer
Reeklaw Formation/ Sand and shale Moderate to large quantities of water	110 feet			Cypress aquifer
Carrizo Sand/ fine to coarse sand, silt and clay Moderate to large quantities of water	80 feet			

I Use additional sheets if necessary.

² Identify the type of discontinuity within four-miles from the site (e.g., river, strata "pinches out", etc.)

TABLE 2 HYDROGEOLOGIC INFORMATION 1

STRATA NAME/DESCRIPTION	THICKNESS (ft.)	DEPTH TO WATER (ft.)	TYPE OF DISCONTINUITY 2	SOURCE OF INFORMATION
Wilcox Group Fine to medium Sand, shale, clay and lignite Yields small quantities of fresh water	770 feet			TWC Bulletin #6517
Midway Group Calcareous clay and some thin beds of fine sand or silt in upper part	760 feet			TWC Bulletin #6517
Kemp Clay	220 feet			TWC Bulletin #6517
Carsicana marl Hard marl	30 feet			
Nacatoch Sand fine sand and marl. Sand beds thickest near top. Marl predominates near base	500 feet		Yields moderate quantities of fresh water N of Taco fault zone	TWC Bulletin #6517 Yields large quantities of very saline water S of Taco fault zone

¹ Use additional sheets if necessary.

² Identify the type of discontinuity within four-miles from the site (e.g., river, strata "pinches out", etc.)

Texas and Northern Lone Star Varehouse Company

REFERENCES FOR PRELIMINARY ASSESSMENT

Reference Number Description of the Reference 01 Texas Water Commission, Interoffice Memorandum. To: Russ Kimble, Hazardous & Solid Waste. From: Kevin Phillips, District 5. July 3, 1987. Re: Analytical Results from Four Water Samples Taken From Two-Monitoring Wells at T & N. 02 Ground Water Resources of Camp, Franklin, Morris and Titus Counties, Texas, Texas Water Commission, Bulletin #617. July, 1965. 03 Record of Wells, Morris County, Texas, Texas State Board of Water Engineers. June, 1942. 04 Harris, James A., Jr., FIT Geologist. PA Reassessment for Lone Star Steel Company, Morris County, Texas. TDD: F-6-8805-6, EPA #TXD007323397. September 26, 1988. 05 Texas Almanac, 1947-1948. 06 Solid Waste Compliance Monitoring Inspection Report. Texas Water Commission, TWC Reg. No. 33373. April 27, 1987. 07 Chain of Custody Tags SW06393-SW06397 and SW00430, District 5. Analytical Results for Samples Collected September 19, 1985 during a District 5 Solid Waste Sampling Inspection (lead, only). October 23, 1985. 08 ROC. To: Marriane Buchannon, Assistant General Manager, NE Texas Water District. From: James A. Harris, Jr., ICF/FIT Geologist. Re: Water Use. 15 September 1988. 09 Texas Water Commission, Agreed Order. August 13, 1986. 10 Morris County Appraisal District, Two blue line copies of Aerial maps (Portions of Morris and Cass Counties) Shows land owned by T & N & Lone Star S. Date: Received January 11, 1989. * Not included, Submitted on Request.

ROC. To: Michael Watson, FIT Chemist. From: Dorinda Sullivan, Texas Parks & Wildlife, Endangered Species. January 16, 1989.

of the Population. U.S. Chamber of Commerce.

Characteristics of the Population, Number of Inhabitants, 1980 Census

11

REF. SEGEIVED 6 1987

Texas Water Commission

INTEROFFICE MEMORANDUM

FIELD OPERATIONS

TO

Russ Kimble, Chief, Reports & Management Section, DATE: 7-3-87

Hazardous & Solid Waste Division

THRU

Luis E. Campos, Hazardous & Solid Waste Coordinator,

Field Operations Division

FROM

Kevin Phillips, District 5

SUBJECT: T&N Lone Star Warehouse Co., Registration #33373

On March 30, 1987, I conducted an industrial solid waste inspection of the subject facility and samples were taken from two of the facility's RCRA landfill ground water monitoring wells. I was accompanied by Judy Yocom and Mark Snyder of Lone Star Steel, who are working as consultants for the T&N Lone Star Warehouse Co.

A total of four samples were taken from two monitoring wells. The wells tested were the monitoring wells which were installed via an agreed order from TWC dated August 13, 1986. Monitoring wells numbers 3 and 4 were the two wells sampled. Well #3 is located on the southeast corner of the landfill and well #4 is located approximately midway of the landfill on the west boundary. The designation of upgradient or downgradient wells has not been made for the wells at this facility. Chain of custody tag numbers HM 10546 and SW 10900 were used for monitoring well #3 and chain of chain of custody tag numbers HM 10547 and SW 10899 were used for monitoring well #4. Chain of custody tag numbers SW 10899 and SW 10900 indicated less than detectable limits for acid extractables, base neutral extractables, pesticides, and volatile organics (see attached sample results). Samples HM 10546 and HM 10547 were tested for cadmium, lead, barium, and chromium. See Table I for results:

Table I :

HM 10546 pH 6.0 s.u. NA Conductivity 335 umhos NA Cadmium (E.P.Tox.) < .008 .01 Lead ".022 .05	g/1)
Cadmium (E.P.Tox.) < .008 .01	
Lead " .022 .05	
••••	
Barium " .266 1.0	
Chromium " .010 .05	
HM 10547 pH 5.8 s.u. NA	
Conductivity 840 umhos NA	
Cadmium " .010 .01	
Lead " .040 .05	
Barium " .056 1.0	
. Chromium " .642 .05	

IOM- T&N Lone Star Warehouse Co. July 3, 1987 Page 2

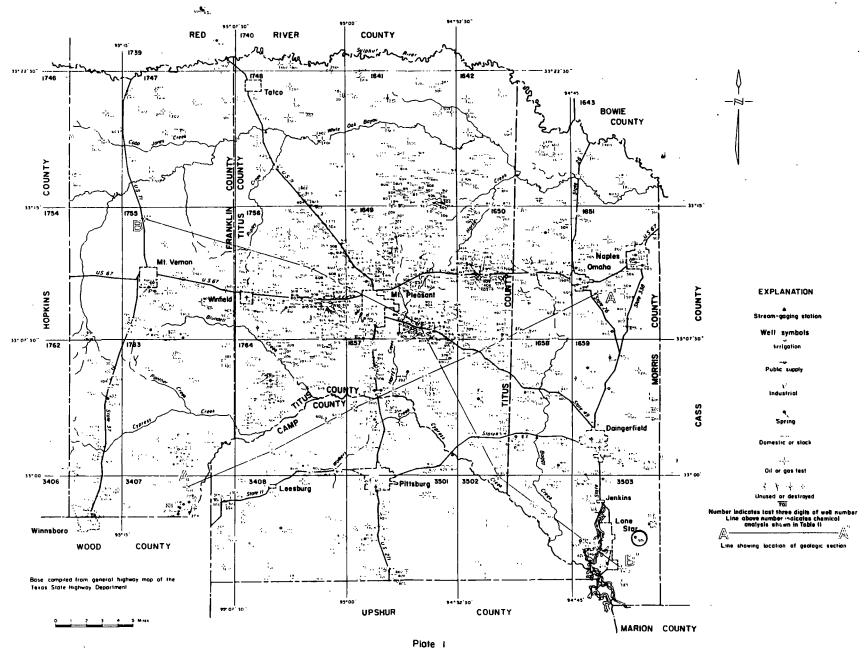
In the sample taken from monitoring well #4, the cadmium value is equal to the maximum concentration of constituents for ground water protection listed in TAC 335, which is .010 mg/l. Chromium analysis for this well measured .642 mg/l. This level exceeds the .05 mg/l value by ten times in TAC 335, maximum concentration of constituents for ground water protection.

Please review these results for appropriate action.

Kevin Phillips, Inspector

John W. Witherspoon, Manager

Attachments



Map Showing Locations of Wells, Springs, and Stream-Gaging Stations in Camp, Franklin, Morris, and Titus Counties

U.S. Geological Survey in cooperation with the Texas Water Commission

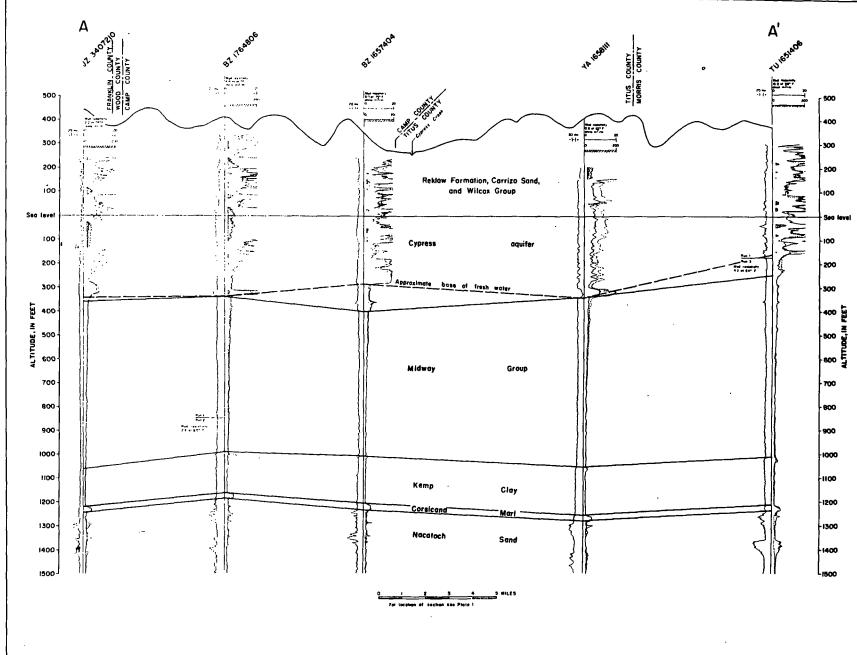
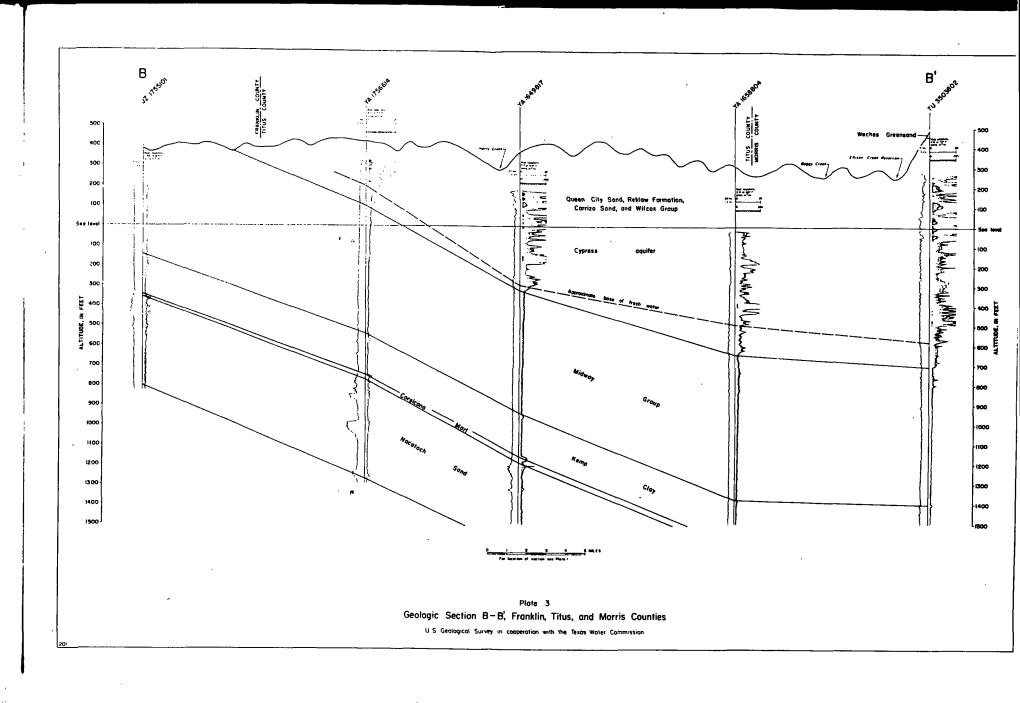


Plate 2 Geologic Section A-A', Franklin, Camp, Titus, and Morris Counties

U.S. Geological Survey in cooperation with the Texas Water Commission

120



IMPORTANT

OPTIONS WILL BE FOLLOWED UNLESS MARKED OTHERWISE

Color No. Number of Bindings of Same Title	LETTER SPINE EXACTLY AS SHOWN BELOW
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HORRIS COUNTY, TEXAS

Records of wells and springs, drillers' logs, water analyses, and map showing locations of wells and springs

TEXAS STATE BOARD OF WATER ENGINEERS

C. S. Clark, Chairman

A. H. Dumlap, Member

J. W. Pritchett, Member

Prepared in cooperation with the United States Department of the Interior, Goological Survey

June 1942

LIBRARY
TEXAS WATER DEVELOPMENT BOARD

MORRIS COUNTY, TEXAS

Βy

C. R. Follett

This publication contains records of 102 wells and springs, drillers' logs of 7 wells and the results of chemical analyses of water from 87 wells in Morris County, Texas. The records were collected from March 11 to 24, 1942 by C. R. Follett.

The analyses were made by chemists employed on Work Projects Administration Project No. 17276 under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, The University of Texas and W. W. Hastings, Chemist of the Quality of Water Division of the Federal Geological Survey. The results of all of the analyses are tabulated in parts per million and 16 of them are also given in milligram equivalents per liter for the convenience of those who prefer this form of expressing the quality of water.

The records serve as a guide to land owners, well drillers and others who need information regarding wells, the depth to ground water in different parts of the county, and the quality and chemical character of water yielded by the wells. They provide useful information for more detailed investigations that are being made by the Texas State Board of Water Engineers in comperation with the Federal Geological Survey in many parts of Texas.

A limited number of copies of this release are available for free distribution. They may be obtained by addressing a request to Mr. C. S. Clark, Chairman, Texas State Board of Water Engineers. 302 West 15th Street, Austin, Texas.

This release was mimeographed by employees of the Work Projects Administration Project No. 17276.

Records of wells and springs in Morris County, Texas All wells were dug unless otherwise stated in remarks

:	•	wells were dug unless other		,	!	Height of
ell	Distance	Owner	Date	Depth	Diam-	measuring
٥.	from		com-	of	eter	point
1	Omaha		ple-	well	of	above
:	1	• •	ted	(ft.)	well	ground
:	,		,	, , !	(in.)	(ft.)
1	8 miles	Dutch Love	1922?	65	8	1.4
	north		<u>; </u>	<u> </u>	; 	<u></u>
2;	74 miles	C. W. Forsyth		39	. 8	3.2
7	north 8 miles	<u> </u>	12040	40	!	<u></u>
ا	north	C. D. Browne	1942	49	3	
4		do.	1941	96	3	
- :	08 3		1 2000	5 014	!	<u></u>
5	84 miles north	do∙	1937	5,014	13 - 5/8	
6	84 miles	***				
	northeast		,		1	
20	~	C. E. Heard	Old	30	24	
	northeast		1	 	1	
21	**	Elic Norris Est.	1939	39	30	2.6
;	northeast		1		i .	
22	47 miles northeast	Mrs. H. J. Vissering	01d	22	36	2.1
23		City of Naples No. 2	1935	450	13	
24	do.	City of Naples No. 1	1925?	400+	12	-
			ISLU:	±00_	1	
25	52 miles northeast	J. A. Higgins	01d	30	36	
40		Joe Parham	1922	13	24	2.1
	east					
41	In Omaha	Thomas & Ware Water Co.	1930	260	6	***
42	2 miles	T. I. Pate	1930?	64	36	4-0
43		Mrs. R. H. Motley	1926?	27	30	2.9
44	35 miles	Mrs. W. J. Moore	01d	39	42	1.4
45		Union Chapel School	1840?	26	30	3.2
46	north 5 miles	B. Settles	1916?	43	a 30	2.7
- TO	northwest	. B. Gettles	TATOS	43 	30	6. (
47	54 miles northwest	J. W. Rogers	1935	96	6	1.6
48		Mrs. Annie L. Kline	1885?	25	36	***
	northwest	,	:			

a/ Plus (+) indicates water level is above ground.
b/ T, turbine; A, air or natural gas lift; C, cylinder; E, electric; W, windmill;

H, hand. Number indicates horsepower.

- 4 -

Chemical analyses of water from most of these

wells and springs are shown in a table of analyses on pages 15 to 19. ant of Water lavel Belcw Date of Method Use Well: Remarks suring oint measuring measureofNo. ove point ment lift | water ound (ft.)a/**b/** <u>c</u>/ t.) 1.4 61.52 | Mar. 17. Ħ D,S Tile casing. Bored. 1942 3.2 2: 36.51 do. Н D,S Do. 3 N Drilled; seismograph test hole. Water sand __ None reported from 30 to 49 feet. 4: --None N Drilled: seismograph tast hole. Water sand reported from 30 to 49 and 85 to 96 feet. 5:+ Mar. 17. Drilled; oil test. Estimated flow 5 gallons a Flows N 1942 minute 1 foot above ground. 6:+a/ Flcws N Drilled; oil test. Flow of salty water reported. D,S 20 d/15H Brick curbing. 33.91 Mar. 18. D,S Wood curbing. 1942 22: 5.67 do. C,H S Tile curbing. 23 d/123 1935 T,E, P Drilled to 864 feet and plugged back. Layne-15 Texas Company drillers. Screens from 297 to 300 310 to 354 and 397 to 430 feet. Underreamed to diameter of 30 inches and gravel packed from 29 to 450 feet. Drawdown reported 155 feet while pumping 88 gallons a minute when drilled. See Drilled. Screen at about 300 feet. 24 None N log. Formerly supplied City of Naples. 25 d/ 20 H D.S 40 6.22 Mar. 20, C,E,H D.S Tile curbing. 1942 41¦d/ 60 A,E, Drilled. Supplies City of Omaha. Casing perforated in lowermost 40 feet. Reported yield 10 100 gallons a minute. Temperature 66° F. 42 55 Mar. 18. H D.S No curbing. 1942 43 24.51 Mar. 17 H D,S Brick curbing. 1942 Mar. 18, 24.93 44 H S Do. 1942 Mar. 17, 45 8.50 H D,S,P Do. 1942 40.86 46 H do. D.S Do. 47 60.97 H do. D,S Bered. Tile casing. 48 H D,S Rock curbing.

L;

c/P, public supply; Ind, industrial; D, domestic; S, stock; N, none.
d/ Water level reported by owner or tenant.

- 5 -

rom Omaha imiles orthwest imiles orthwest imiles orthwest imiles orthwest imiles outhwest imiles outhwest imiles outhwest imiles outhwest outhwest imiles outhwest	Owner S. Patterson Sam Smith Mrs. Annic Smith A. W. Hays W. B. Robertson R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason W. H. Witt	Date com- ple- ted 1935? 1890? 1921? 1900?	Depth of well (ft.) 115 19 76 48 50 45+ 17 23	Diameter of well (in.) 6 8 30 6 36 36 36	Height or measuring point above ground (ft.) 2.1 0.0 4.0 2.9 6.5
from Omaha implies corthwest implies corthwest implies corthwest implies corthwest implies couthwest	S. Patterson Sam Smith Mrs. Annie Smith A. W. Hays W. B. Robertson R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	com- ple- ted 1935? 1890? 1900? 1900? 1922?	of well (ft.) 115 19 76 48 50 45+ 17 23	eter of well (in.) 6 8 30 6 36 36 36	measuring point above ground (ft.) 2.1 0.0 4.0 2.9 2.9
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orthwest imiles orthwest imiles orthwest imiles orthwest imiles outhwest	Sam Smith Mrs. Annie Smith A. W. Hays W. B. Robertson R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1890? 1921? 1900? 1900? 1932 1922?	19 76 48 50 45± 17 23	6 30 6 36 36 36	2.1 0.0 4.0 2.9 2.9 6.5
orthwest imiles orthwest imiles orthwest imiles orthwest imiles outhwest	Sam Smith Mrs. Annie Smith A. W. Hays W. B. Robertson R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1890? 1921? 1900? 1900? 1932 1922?	19 76 48 50 45± 17 23	30 6 36 36 36	2.1 0.0 4.0 2.9 2.9 6.5
miles orthwest a miles orthwest a miles orthwest a miles outhwest	Mrs. Annie Smith A. W. Hays W. B. Robertson R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1890? 1921? 1900? 1900? 1932 1922?	76 48 50 45+ 17 23	36 36 36 36	2.9 2.9 6.5
orthwest in iles corthwest in iles corthwest in iles corthwest in iles couthwest	Mrs. Annie Smith A. W. Hays W. B. Robertson R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1890? 1921? 1900? 1900? 1932 1922?	76 48 50 45+ 17 23	36 36 36 36	2.9 2.9 6.5
miles orthwest miles orthwest miles outhwest	A. W. Hays W. B. Robertson R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1921? 1900? 1900? 1932 1922?	48 50 45+ 17 23	6 36 36 36	2.9 2.9 6.5
orthwest a miles couthwest couthwest miles couthwest	A. W. Hays W. B. Robertson R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1921? 1900? 1900? 1932 1922?	48 50 45+ 17 23	6 36 36 36	2.9 2.9 6.5
miles couthwest	W. B. Robertson R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1900? 1900? 1932 1922?	50 45± 17 23	36 36 36 36	2.9
miles outhwest	W. B. Robertson R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1900? 1900? 1932 1922?	50 45± 17 23	36 36 36 36	2.9
miles outhwest	R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1900? 1932 1922?	45 <u>+</u> 17 23	36 36	2.9
outhwest in iles outhwest	R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1900? 1932 1922?	45 <u>+</u> 17 23	36 36	2.9
outhwest in iles outhwest	R. Curry Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1900? 1932 1922?	45 <u>+</u> 17 23	36 36	2.9
miles outhwest	Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1932	17 23 22	36 36	2.9
couthwest cuthwest miles cuthwest miles cuthwest miles cuthwest miles cuthwest miles cuthwest	Johnson's Chapel School T. C. Connor Mrs. R. H. Talley B. J. Cason	1932	17 23 22	36 36	2.9
miles outhwest miles outhwest miles outhwest miles outhwest miles outhwest	T. C. Connor Mrs. R. H. Talley B. J. Cason	1922?	23 22	36	6.5
couthwest couthwest miles couthwest miles couthwest miles couthwest miles couthwest	T. C. Connor Mrs. R. H. Talley B. J. Cason	1922?	23 22	36	6.5
miles outhwest miles outhwest miles outhwest miles outhwest	Mrs. R. H. Talley B. J. Cason	1922	22	1	1
outhwest miles outhwest miles outhwest miles outhwest miles outheast	Mrs. R. H. Talley B. J. Cason	1922	22	1	1
miles outhwest outhwest miles outhwest miles outheast	B. J. Cason	<u> </u>	1	36	5.0
miles outhwest miles outhwest miles outheast	B. J. Cason	<u> </u>	1	36	5.0
miles outhwest miles outheast	B. J. Cason	1916	! !	ŗ	•
outhwest miles coutheast		1916		ı	!
outhwest miles coutheast		,	20	36	2.3
miles ; outheast	W. H. Witt	ı			1
outheast		1903	37	36	1
		1 1300			1
	Williams Charal Cabas	}	19	42	2.8
miles	William's Chapel School		19	42	2.0
outheast) 	·		
	I. Forsyth	01d	21	42	1.5
		<u> </u>			<u> </u>
miles	Rocky Branch School	01d	30	48	
outheast) ,			j
miles	Kan Thigpen	1917?	25	36	2.8
					1
	Plainview School		26	36	2.6
	Traintion ponoot				
	W M C	3076	105		
	w. M. and Clara Smith	1936	4,105	10	-
ast					į
					1
		<u> </u>		· · · · · · · · · · · · · · · · · · ·	! !
	R. P. Lowery		20	36	3.2
ast		 			i
miles :	Edwards Est.	01d	17	42	4.8
ast			,		!
	J. B. Trein	1916	19	36	1.6
-	1 2 2 44 111				1
<u>.</u> .	į,	_	_ ;		Hoight o
J	. Owner	Date	:		measurin
from ;	j	com-	of	eter	point
aingerfield	i i	ple-	well	of	above
- ;	·			well	ground
;	j		, , ,		(ft.)
miles	James Homel		10		3.0
•	A STIME TOWET		TO	.00	!
		1000	20	49:	1.7
	· 100 1000 '	TA0.	79 i		i **/
orthwest	JOG JUSTISS i	•	;	200	٠
	miles outheast miles outheast miles ast miles ast miles ast miles ast miles outheast istance from aingerfield miles orthwest	miles cutheast miles cutheast miles cutheast miles cutheast miles James Howel	The second secon	miles Rocky Branch School Old 30 outheast	South Rocky Branch School Old 30 48 outheast miles Kan Thigpen 1917? 25 36 outheast Plainview School 26 36 outheast W. M. and Clara Smith 1936 4,105 10 ast R. P. Lowery 20 36 ast Edwards Est. Old 17 42 ast J. B. Irvin 1916 19 36 outheast Owner Date Depth Diameter from com- of eter aingerfield ple- well (ft.) well miles James Howel 18 36

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nt of		Water	lawel		}	
iring	Well	, 	Date of	; 'Mathad	Use	Remarks
nt		measuring		of	; ose ! of	nemarks
ve	140.	point	ment	lift	water	
ind		(ft.) a/			1 .	1 1
.)		(10.7 2)) !	<u>₽</u>		1
•	49			C,W	D,S	Drilled. Tile casing.
1		i 1	1 1		,-	2222204 1120 40011004
-	50	12.91	Mar. 20,	Н	. D	Bored. Tile casing.
0			1942	1	1	
·	51	42.54	do.	None	N	Rock curbing.
0		i 	1	i 1	i I	·
	52		Mar. 20,	H	D,S	Bored. Tile casing.
9	· .		1942	i	! !	
	70		Mar. 16,	H	D,S	Rock curbing.
			1942	1 	1	1 : -
	71	i		C,H	D,S	1 1
9		 	1	1	! !=-=-	
	72		Mar. 19,	H	D,S,P	Brick curbing to 3 feet.
3			1942	1		
	73		Mar. 16,	H	D,S	Reported to fail during droughts.
) _			1942	H	<u> </u>	
,	74	17.71	do.	п	D,S	
\$	75	6.91	do.	Н	n c	
	. 75	0.31	40.		D,S	N
	76	d/ 15		H	D,S	No curbing.
	. /6	<u> </u>		. 11	. D,S	no egrorus.
,	77	14.95	Mar. 20,	H.	P	Do.
	• • •		1942			
	78		Mar. 16,	H	D,S	· · · · · · · · · · · · · · · · · · ·
	. •		1942		- ,-	-17 -
•	79	; 		C,H	P	Rock curbing.
		!	1	•		
.1	80	14.39	Mar. 11,	H	D,S	!
-		! !	1942	! !	i 	1
	81	15.19	do.	H	D,S	1
		<u> </u>	i 	<u> </u>	1	i I
	82			None	N	Drilled; oil test, Stephen J. Rotond, driller.
1		f 1 1	!	•	i !	Electrical log from 600 to 1,751 feet, in
		; !	! !	!	į	files of Texas Board of Water Engineers, shows
		ļ		<u> </u>	<u> </u>	thin sand between 655 and 665 feet. See
	83		Mar. 11,	H	D,S	No curbing. partial driller's log.
_			1942			
	84	8 • 68	do.	H	D,S	Do.
		1 34 45	 	<u>i</u>	1	!
	85	14.43	go.	H	D,S	i I
of	لوساة	· • • • • • • • • • • • • • • • • • • •	1			
ng	797 3.0	Water	level	i 		
	Well	4	1	Mothod	t	Remarks
	No.	measuring		of	of	
		point (ft.) a/	ment	lift	water	i !
		; (10.) B	! !	₽/		
	100	14.04	Mar. 19,	Н	D,S	
	700		1942	! **	, 0,0	grant .
	101		Mar. 16,	H	D,S	Bored from 34 to 79 feet. Reported that no
		!	1942		,-	water was encountered below 30 feet. Supply
				!		reported rather small.
			•	-		

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	Reco	rds of wells and springs in	Morris	County	Continu	
Well No.	Distance from	Owner	Date com-	Denth	Diam- eter	Height of measuring point
! : :	Daingerfield		ted	well (ft.)	of well (in.)	above ground (ft.)
102	$6\frac{1}{2}$ miles northwest	Hays Johnson	, 01d	22	48	3.2
103	54 miles northwest	Connor Bros.	1936?			
104	5½ miles northwest	do.	1920?	16	36	
	4호 miles west	J. C. Tittle	1917	17	36	4.0
	34 miles northwest	H. Thigpen	1922?		10	***
107	5 miles northwest	Sunview School	1938	25	36	2.4
108	4 miles northwest	Mrs. Sallie Sibley	1932	4,000		
109	do •	Mount Moriah School	1935	20	36	3.1
110	5 miles northwest	T. C. Connor	1935	380	4	
111	5g miles northwest	Connor Bros.		21	42	2.0
112	5 miles north	Mount Zion School	1935	26	24	2.5
	4 miles northwest	W. C. Whitmere	1917?	27	42	2.5
	2 miles northwest	Ed Wallace		27	42	3.0
)	2 miles north	Connor Bros.	Old	29	36	4.5
i i	4 miles north	J. A. Martin	1937	21	36	2.7
131	5½ miles northeast	Eugene Hall	1939	4,302		•
132	5% miles northeast	J. B. Hall	1920	18	30	4.4
133	42 miles northeast	Mrs. Gladys Wakefield	Old	19	36	5.0
134	34 miles northeast	T. E. Goodwin	1906	25	36	40
135	2½ miles northeast	Irvin Bros.	01d	29	36	3.4
136	34 miles northeast	J. W. Smith		30	36	
137		do.	1928	27	30	2.6
138	3 miles northeast	Bradfield's Chapel School		22	36	3.1
	32 miles east	J. G. Wallis		18	36	2.2

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	Water	level	<u>. </u>	1	
Tell	'	Date of			Remarks
$No \cdot$	measuring		,	of	
	point	ment	: - ·	water	: !
	(ft.) <u>a</u> /	! !	<u></u> ₽/		
102		Mar. 23, 1942		D,S	No curbing. Reported to fail during droughts.
103	1		None	N	Drilled; oil test.
104			Н	D,S	
105		Mar. 24, 1942	i !	D,S	· ·
106	1	Mar. 19, 1942	Flows	S	Drilled; oil test. Estimated flow 5 gallons a minute at ground level.
107	25.30	do.	H	P	Supply reported rather small.
108			None	N	Drilled; oil test; J. E. Crosbie Inc., driller See partial driller's log.
109		Mar. 23, 1942	Н	Р	
110	+ 	Mar. 16, 1942	Flows	S	Converted oil test. Drilled to 4,203 feet and plugged back. Estimated flow 30 gallons a
111	20.96	do.	H	D,S	minute in 1942. Temperature 67° F. See par- No curbing. tial driller's log-
112	22.93	do.	Н	P	Brick and tile curbing.
113	22.98	do.	H	D,S	No curbing.
114	,	Mar. 23, 1942	Н	D,S	Do.
115	30 • 67	do.	H	D,S	Do.
130	•	Mar. 20, 1942	C,E,H	D,S	Tile curbing from 12 to 21 feet.
131			None	N	Drilled; oil test. Electrical log from 200 to 1,047 feet, in files of Texas Board of Water Engineers, shows sands between 200 and 240, 305 and 315, 375 and 460, 495 and 505, and
132		Mar. 19, 1942	H	D,S	570 and 620 feet.
133		Mar. 13, 1942	H	D,S	
134	₫/ 5		H	D,S	No curbing.
135		Mar. 13, 1942	H	D,S	Do.
136	<u> </u>		C,H	D,S	
137		Mar. 13, 1942	H	D,S	
138			H	D,S	No curbing.
139	14.06	do.	Н	D,S	

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- 9 -

	1	ds of wells and springs in	<u> </u>	1		Height of
ell	Distance	Owner	Date	Depth	Diam-	measuring
No•	from	1	com-	of	eter	point
	Daingerfield	f i	ple-	well	of	above
	parmetricia	1		(ft.)		•
	I	!	ted:	(16.)	well	ground
	; 		 	<u></u>	(in.)	(ft.)
	34 miles east	J. G. Wallis		9	36	2.0
160	34 miles southeast	Oak Grove School		21	36	2.0
161	4 miles	Rock Hill School		19	36	2.7
	southeast	i nook marr somoor	1	, -	00	
162	2 miles	M. C. Hervey	'	Spring		
102	goutheast	M. O. Helvey	! 	Spring		
1.00	la miles		1 005	100		
	southeast	Daingerfield State Park	1430	493	6	
164	la miles	Oscar Irvin	1937?	36	36	2.9
1.05	south	<u> </u>	1 2000			
T 92	24 miles	J. M. Holt	1902	65	36	
	southwest	·	<u> </u>			·
166	do.	do.) 	Spring		
167	l mile	M. F. Gaffney	01d	15	36	2.3
	southwest					-
168		d; Thomas & Ware Water Co.	1924?	365	10	
100	i in parimonator	d, include a halo halot oor	130-11		10	
169	do.	do.	1939	385	10	
103	1 40•	40 •	1202	, JOJ	10 .	
			: !			} !
	, !	į ·	•		!	
	<u> </u>	· 	! !		·	
170	do•	City of Daingerfield. No. 1	1939	386	1 3- 7/8	
171	1 mile	T. N. Jones	1926	25	42	
	north	- 	·			
180	In Cason	McGrede Est.		17	24	2.5
	1 	1 	<u> </u>	<u> </u>		
181	5 miles	C. S. Turner		23	42	2.8
	southwest	1				<u> </u>
182	2 miles	Connor Bros.		27	36	. 2.9
	west				1	· · · · · · · · · · · · · · · · · · ·
183		Sycamore School		Spring		
TOO		pleamore perior		Phring		
	southwest		1000	<u> </u>	-00	
364	do.	do.	1938	23	26	1.0
184	•	<u> </u>				·
	<u> </u>			4,004	10	
	3½ miles	Connor Bros.	1931	, 4 ,00 .		1
	3½ miles southwest	Connor Bros.	1931	4,00-2		
185		Connor Bros. Miller Est.	1931	51	36	2.8

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	Water	level		·	,	
ell				Method	IIge	Remarks
0.					of	Henri RS
1	point	, measu			water	
ì		•	,		,	
1	(ft.) <u>a</u> /) 		<u>b/</u> .	೭/	
140	5.46	Mar.	13.	Н	D,S	No curbing.
		1942	•	i 1	, -,-	
160	13.75	Mar.	24.	H	P	
		1942	•	• •	! !	
161;	18.59	Mar.	12,	Н	D.S.P	Tile curbing from 11 to 19 feet.
i		1942	•	! !		
162	+	Mar.	23,	Flows	D	At head of gully near hilltop. Estimated flo
		1942	•	!		2 gallons a minute. Temperature 57° F.
163		1935		C,E,	P	Drilled. Cased to bottom; 40 feet of casing
		!		5,5		perforated at 403 to 460 feet. Reported draw
į	1	;		;	;	down 25 feet while pumping 100 gallons a minu
i	i I	! !		1 !		
		;		1	,	when drilled. Formerly supplied CCC camp; nor
	56.35	1		· • • • • • • • • • • • • • • • • • • •		supplies park building at lake front. See loa
164		Mar.	23,	H	D,S	
		1942				
165		;		C,H	D,S	Wood curbing from 53 to 65 feet.
3.66		130	30	1 700 -		
166	.	Mar.	13,	Flows	D,S	In creek bank. Measured flow 5 gallons a
		1942		·	<u> </u>	minute. Temperature 54° F.
167	13.29	do.	•	H	D,S	No curbing.
) 	i		<u> </u>	1	
168		<u> </u>		None	N	Drilled. Formerly supplied City of Dainger-
		i		! !		field. Reported yield 80 gallons a minute.
169				T,E,	N	Drilled; J. C. Boling driller. Furnerly
	i	•		10		supplied City of Daingerfield. Reported yield
i		•) 		110 gallons a minute. Cased to 385 feet; per
. !). :-	i ·		! !		forated from 305 to 365 feet. Gravel packed
ı						
170	4/ 212	1939		: T.E.	: P :	
170	₫\ <u>\$</u> 10	1939		T,E,	P	Drilled to with 16 cubic yards of gravel.
170	₫\ s10	1939		T,E, 15	P	654 feet and plugged back; Layne-Texas Compan
170	₫/ 21)	1939			P	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a
170	₫ / 810	1939			P	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3
170	₫ / 21⊃	1939			P	654 feet and plugged back; Layne-Texas Compandrillers. Screensfrom 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet
170	₫ / 21⊃	1939			P	654 feet and plugged back; Layne-Texas Compandrillers. Screensfrom 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140
		1939		15		654 feet and plugged back; Layne-Texas Compandrillers. Screensfrom 258 to 279, 301 to 321 at 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See 10
170 171		1939			D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140
171	₫ / 20		12	15 C,E,	D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 36 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See low No curbing.
	₫ / 20	Mar.	13,	15		654 feet and plugged back; Layne-Texas Compandrillers. Screensfrom 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See 10
171 180	<u>d</u> / 20 7.95	Mar. 1942		C,E,	D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See 10 No curbing.
171	<u>d</u> / 20 7.95	Mar. 1942		15 C,E,	D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screensfrom 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See long.
171 180 181	d/ 20 7.95 18.56	Mar. 1942	,	C,E, C,E,H	D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screensfrom 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See long No curbing. Tile curbing. Wood curbing from 12 to 23 feet.
171 180	d/ 20 7.95 18.56	Mar. 1942 do.	,	C,E,	D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See 10 No curbing. Tile curbing. Brick curbing from 12 to 23 feet. Brick curbing to 3 feet; wood curbing from 22
171 180 181	<u>d</u> / 20 7.95 18.56 26.77	Mar. 1942 do. Mar. 1942	24,	C,E, C,E,H H	D,S D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See lo No curbing. Tile curbing. Wood curbing from 12 to 23 feet. Brick curbing to 3 feet; wood curbing from 22 to 27 feet.
171 180 181	<u>d</u> / 20 7.95 18.56 26.77	Mar. 1942 do. 1942 Mar.	24,	C,E, C,E,H	D,S D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See 10 No curbing. Tile curbing. Wood curbing from 12 to 23 feet. Brick curbing to 3 feet; wood curbing from 22 to 27 feet. In creek bank. Estimated flow gallon a
171 180 181 182	d/ 20 7.95 18.56 26.77	Mar. 1942 do. 1942 Mar. 1942	24,	C,E,H H H	D,S D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 36 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See low No curbing. Tile curbing. Wood curbing from 12 to 23 feet. Brick curbing to 3 feet; wood curbing from 22 to 27 feet. In creek bank. Estimated flow gallon a minute. Temperature 53° F.
171 180 181 182	d/ 20 7.95 18.56 26.77	Mar. 1942 do. 1942 Mar. 1942	24,	C,E, C,E,H H	D,S D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See 10 No curbing. Tile curbing. Wood curbing from 12 to 23 feet. Brick curbing to 3 feet; wood curbing from 22 to 27 feet. In creek bank. Estimated flow gallon a
171 180 181 182 183	4 20 7.95 18.56 26.77 +	Mar. 1942 do. 1942 Mar. 1942	24,	C,E, C,E,H H H H	D,S D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See lo No curbing. Tile curbing. Wood curbing from 12 to 23 feet. Brick curbing to 3 feet; wood curbing from 22 to 27 feet. In creek bank. Estimated flow gallon a minute. Temperature 53° F. Tile curbing. Reported to fail during drough
171 180 181 182	4 20 7.95 18.56 26.77 +	Mar. 1942 do. 1942 Mar. 1942	24,	C,E,H H H	D,S D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See lo No curbing. Tile curbing. Wood curbing from 12 to 23 feet. Brick curbing to 3 feet; wood curbing from 22 to 27 feet. In creek bank. Estimated flow gallon a minute. Temperature 53° F. Tile curbing. Reported to fail during drough
171 180 181 182 183	4 20 7.95 18.56 26.77 +	Mar. 1942 do. 1942 Mar. 1942	24,	C,E, C,E,H H H H	D,S D,S D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See lo No curbing. Tile curbing. Wood curbing from 12 to 23 feet. Brick curbing to 3 feet; wood curbing from 22 to 27 feet. In creek bank. Estimated flow gallon a minute. Temperature 53° F. Tile curbing. Reported to fail during drough
171 180 181 182 183	d/ 20 7.95 18.56 26.77 +	Mar. 1942 do. 1942 Mar. 1942	24,	C,E, C,E,H H H None	D,S D,S D,S D,S	654 feet and plugged back; Layne-Texas Compandrillers. Screens from 258 to 279, 301 to 321 a 357 to 378 feet. Underreamed to diameter of 3 inches and gravel packed from 231 to 386 feet Reported drawdown 47 feet while pumping 140 gallons a minute. Temperature 60° F. See 10 No curbing. Tile curbing. Wood curbing from 12 to 23 feet. Brick curbing to 3 feet; wood curbing from 22 to 27 feet. In creek bank. Estimated flow gallon a minute. Temperature 53° F.

- 11 -

	Reco	rds of wells and springs i	n Morris	County-	Continu	red
Wəll To•	Distance from Daingerfield	Owner	Date com- ple- ted	Depth of well (ft.)	Diam- eter of well (in.)	Height of measuring point above ground (ft.)
187	44 miles southwest	W. H. Johnston	1922?	37	36	2.3
188	5 miles southwest	Rosenwald School	1927	22	24	2.7
189	southwest	Walcott Est.	1927	; ; ;	12	
	52 miles southwest	T. C. Connor	1941]		
	6 miles southwest	do.	1936	16	24	0.3
210	south	Jenkins School	1915?	28	36	4.0
	64 miles south	Arkansas-Louisiana Gas Co. No. 1	1937	336	6	
212		Arkansas-Louisiana Gas Co. No. 2	1937	333	4	
<u> </u>	72 miles ; south	J. C. Cock	1941	31	30	3.0
214	9 miles south	Marble Stone School	1935	40	36	3.7
:	6g miles south	Iron Bluff School		29	36	3.3
<u>;</u>	5½ miles ;	Charlie Jenkins		40	36	3.2
- !	6 miles southeast	McCane		26	42	3.2
218	7 miles southeast	S. Turner	1920?	49	42	3.7
219		₫o•		Spring		
,	,		ı	. '		i

a/ Plus (+) indicates water level is above ground.
b/ T, turbine; A, air or natural gas lift; C, cylinder; E, electric; W, windmill;
H, hand. Number indicates horsepower.

nt of iring int ove

1;

;	Water	level	•	- 	
Well:	:	Date of	,	Usc	Romarks
No.	measuring	measure-	•	of	•
į	point	ment	lift	watc	
	(ft.) a/		<u>b</u> /	c <i>;</i>	
187	34.87	Mar. 12, 1942	H	D,E	Wood curbing from 21 to 37 feet.
188	21.43	do.	H	D,S.	Tile curbing.
189	+	do.	Flows		Drilled; oil test. Estimated flow 3 gallons minute 1 foot above ground. Temperature 660
190			None	N	Drilled; oil test.
191	i	Mar. 12, 1942	H	D,Ł	Tile curbing.
210		Mar. 23, 1942	H	P	Brick curbing to 3 feet; tile curbing from 19 to 28 feet.
211			A	Inc	Drilled. Estimated yield 50 gallons a minute
212			A,E	D,I:.	Drilled. In conjunction with well 211 suppli Terry compressor station.
213	30.31	Mar. 23, 1942	H	D, ⊆ .	Wood curbing from 7 to 30 feet.
214	37.91	Mar. 12, 1942	H	P	
215	27.18	do.	H	D,S	No curbing.
216	24.22	do.	Н	D,E	Wood curbing in bottom.
217	12.92	do.	H	D,S	1
218	34.23	do.	H	D,S	No curbing.
219	+	do.	Flows	D, C	On bank of creek. Estimated flow 1 gallon a minute. Temperature 61° F.

c/ P, public supply; Ind, industrie; D, domestic; S, stock. N, none.
d/ Water level reported by owner or tenant.

Table of drillers' logs of wells in Morris County, Texas

Thicknes	s Depth	T	hickness	Dept
(feet)			(feet)	(fee
				· · · · · · · · · · · · · · · · · · ·
Well 23		Well 110, part T. C. Connor, 5% miles n	orthwest	of
City of Naples No. 2, in Naples		Daingerfield. Elevation		01
Red clay 10	10		47	47
Blue clay 51	61	Surface clay and sand	6	53
Shale 46	107	Sand rook	23	76
fard shale 50	157	Rock	20 ;	70
Shale, lignite and fine-	1	Lignite and hard broken	12	88
grained sand 91 Rock 1	248	shale Soft coarse lime	12	100
	249	J	12	112
Hard shale 49	298	Solid lignite	183	295
Sand 10	308	Shale and boulders	29	324
Shale with layers of sand 38	346	Water sand	305	629
Shale 57	403	Shale and boulders		669
Sand 33	436	Sandy shale and boulders	129	798
Shale 40	476	Shale	8	806
Shale with layers of rock 51	527	Rock	8	814
Shale 66	593	Shale	132	946
Sand 7	600	Shale and boulders	102	340
Shale 264	864	Shale, sandy shale and	1399	234
rilled and plugged back to 450	reet.	lime	1333	4203
W-33 00 11 3 3		TOTAL DEPTH DRILLED	. +- 380	
Well 82, partial log		Drilled and plugged back	10 300 1	. 86
V. M. and Clara Smith, 3 miles	east of	Well 163	:	
Omaha. Elevation, 430 feet.		Daingerfield State Park,	13 miles	
Soil and surface material 67	67		14 WII6	, gou
Sand and shale 573	640	east of Daingerfield.	43	43
Vater sand 20	660	Red clay	22	68
Sand, shale and boulders 1607	2267	Sandy red shale	1	66
Chalk, shale, gumbo and	4305	Iron ore	21	81
shells 1838	4105	Brown clay	20	101
OTAL DEPTH	4105	Sand and gravel	45	152
W-33 300		Blue shale	8	160
Well 108, partial log		Hard packsand	- 1	_
Ars. Sallie Sibley, 4 miles nor	thwest of	Brown shale	65	229
aingerfield. Elevation, 334 for		Sandy shale	88	313
Dlay 30	30	Brown shale	45	358
Sand and shale 310	340	S ly brown shale	23	383
Sand rock	341	Brown shale	22	403
Shale 24	365	Water sand	17	420
7		Hard sand	6 ¦	42
Sand 9	374			449
Sand 9 Shale 266	640	Water sand	15	447
Sand 9 Shale 266 Sand and gravel 40	640 680	Water sand Brown shale	15 9	450
Sand 9 Shale 266 Sand and gravel 40 Shale and shells 70	640 680 750	Water sand Brown shale Water sand	15 9 10	450 460
Sand 9 Shale 266 Sand and gravel 40 Shale and shells 70	640 680	Water sand Brown shale	15 9 10 18	450 460 478
Sand 9 Shale 266 Sand and gravel 40 Shale and shells 70 Sand rock 2	640 680 750	Water sand Brown shale Water sand	15 9 10	450 460 470
Sand 9 Shale 266 Sand and gravel 40 Shale and shells 70 Sand rock 2 Shale, sand and shells 212	640 680 750 752	Water sand Brown shale Water sand Hard sand Shale	15 9 10 18 15	450 460 470
Sand 9 Shale 266 Sand and gravel 40 Shale and shells 70 Sand rock 2 Shale, sand and shells 212 Shale 41	640 680 750 752 964	Water sand Brown shale Water sand Hard sand Shale Well 170	15 9 10 18 15	450 460 470 490
Sand 9 Shale 266 Sand and gravel 40 Shale and shells 70 Sand rock 2 Shale, sand and shells 212 Shale 41	640 680 750 752 964	Water sand Brown shale Water sand Hard sand Shale Well 170	15 9 10 18 15	450 460 470 493
Sand 9 Shale 266 Sand and gravel 40 Shale and shells 70 Sand rock 2 Shale, sand and shells 212 Shale 41 Shale, sandy shale and shells 1414	640 680 750 752 964 1005	Water sand Brown shale Water sand Hard sand Shale	15 9 10 18 15	450 460 478 493 ainger
Sand Shale Shale Shale Sand and gravel Shale and shells Shale, sand and shells Shale Shale, sandy shale and	640 680 750 752 964 1005	Water sand Brown shale Water sand Hard sand Shale Well 170	15 9 10 18 15 1, in D	450 460 470 493 ainge:

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- 14 -

Table of drillers' logs of wells in Morris County--Continued

s Depth		Thickness	Depth		Thickness	
(feet)		(feet)	(feet)		(fect)	(feet
	Well 170-	Continued		Well 185, pa	rtial log	
of	Sand	7 .	32	Connor Bros., 32 miles		of
•	Yellow clay	37	69	Daingerfield. Elevati	on, 450.	
47	Black shale	23	92	Surface sand	20	20
5 3	Sandy shale	23	115	Shale	48	68
76	Sand and lignite	16	131	Shale and boulders	112	180
	Shale	5	136	Packsand	210	390
88	Sand and lignite	25	161	Lime	13	403
100	Sand	21	182	Shale	77	480
112	Rook	1 :	183	Shale and shells	2 64	744
295	Shale	47	230	Lime	8	752
3 24	Sand	44	274	Shale	198	950
6 29	Rook	2	276	Sand	45	995
669	Sand	55	331	Rook	3	998
798	Hard pan	2	333	Shale and boulders	382	1380
806	Sand	5 3	386	Sticky shale	10	1390
814	Shale	23	409	Shale and boulders	6 8	1458
946	Sandy shale	66	475	Lignite and sand	32	1490
	Rook	1	476	Shale, gumbo and stick	v	; B
2345	Hard blue shale	67	543	or sandy shale	1100	2590
4203	Shale	27	57 0	Chalk, shale and shell		4004
et.	Rook	7	577	TOTAL DEPTH	1	4004
	Black shale	77	65 4			
	Drilled and plugged	back to 386 f	eet.	l (
south-				J.		

south-

iger-

 $\gamma + \gamma + \varepsilon (t_1 g_{11}^{\rm eff})^{\frac{1}{2}},$

Partial analyses of water from wells and springs in Morris County, Texas

Analyzed at The University of Texas under the direction of W. W. Hastings, Chemist, U. S. Department of the Interior, Geological Survey, and Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry. Results are in parts per

million. Well numbers correspond to numbers in table of well records.

	1	Depth		Date	3	Total			Sodium and	Bicar	- Sul-	Chlo-	Fluor-	- N1-	Total
Well	Owner	of	i •	of		dissolved	cium	sium	Potassium	bonat	e phate	ride	ide	trate	hardness
		well	co	llect	tion	solids	(Ca)	(Mg)	(Na + K)	(HCO2) (so _i)	(C1)	(F)	(NO_3)	as CaCO3
		(ft.)	!			(sum)	•	!	(calc.)	.)	4	•	•		(calc.)
															
	Dutch Love	55	Mar.	17,	1942	2,702	251	51	251	6	112	302	0.9	1,031	83 5
2	C. W. Forsyth	39		do.		1,046	134	50	129	12	584	143	.3	.O	541
3	C. D. Browne	49		do.		8,184	82	13	3,126	427	2	4,75?	.9		258
<u>c</u> / 20	C. E. Heard	3 0	Mar.	18,	1942		14	4.6		171	12	34		18	• 53
21	. Flic Norris Est	t. 39		do.		141	20	7.1	21	67	18	28	_	14	7 9
22	Mrs. H. J.	•													
_	Vissering	22		ἀ ο .		628	42	37	51.					~:~	نار بنہ
c/ 23	City of Napica								•						
	No. 2	450	Mar.	11,	1942	459	4.8	1.0	183	317	20	94	.2	.0	16
25	J. A. Higgins	3 0			1942		2.8	1.0	5.8	6	8	7.0	-	.0	11 %
	Joe Parham	13		do.		5 5	.8	2.2	17	6	3	28	-	1.0	11 1
c/ 41	Thomas and Ware	9							·						
_	Water Co.	260	Mar.	11,	1942	104	8.8	2.2	21	6	17	22	.0	30	31
42	T. I. Pate	64	Mar.	18,	1942	148	22	3.2	29	104	2	18	-	23	67
43	Mrs. R. H.			•											
	Motley	27	Mar.	17,	1942	136	10	6.8	26	43	7	25	-	40	54
44	Mrs. W. J. Moo:	re 39	Mar.	18,	1942	6,554	776	466	746	372	2,733	1,650	.1	_	3,857
45	Union Chapel			•		• :		•	• •			•			
•	School .	26	Mar.	17.	1942	60	5.2	1.9	15	43	12	3.0	.2	1.0	21
46	B. Settles	43		do.		587	102	45	59	311	15	204	-	9.0	437
47	J. W. Rogers	8 6		do.		373	65	32	33	232	5	120	-	4.0	295
c/ 48	Mrs. Annie L.							_		-	-				
_	Kline	25		do.		78	7.2	3.4	20	79	2	5.0	-	1.0	32
50	Sam Smith	19	Mar.	20.	1942		4.8			12	2	14		18	21
	A. W. Hays	48		do.	- •	119	6.0			12	2	26	-	5 0	3 9
70	W. B. Robertson		Mar.	16.	1942		1.6			12	12	8.0	_	.0	23
	R. Curry	45±			1942		22	5.8		43	18	29	-	24	7 9
-		· -													

Less than 3 parts per million.

b/ Analyzed by the Texas State Board of Health

c/ Analyses of water from selected wells and springs are

Analyzed by the Texas State Roard of Wealth c/ Analyses of water from selected walls

c/ Analyses of water from selected wells and springs are given in milligram equivalents per liter on page 19.

The state of the s

Partial analyses of water from wells and springs in Morris County -- Continued Results are in parts per million

				Result	s are	in part	s per milli	on			1		
V 2.		Depth	Date	Total	Cal-	Magne-	Sodium and	Bicar-	Sul-	Chlo-	Fluor-	Ni-	Total
Well	Owner	of	of	dissolved	cium	sium	Potassium	bonate	phate	ride	ide	trate	hardness
		well	collection	solids	(Ca)			(HCO ₃)			(F)	(NO_3)	as CaCO3
		(ft.)		(sum)			(calc.)	! J		1	l 		(calc.)
72	: Johnson's Chape		•										
	School	17	Mar. 19, 1942	37	7.2		1.4	24	5	6.5	0.0	1.0	32
	T. C. Connor	23	Mills Dy Louis	÷	1.2	3.4,	11	i?	~	ر ز	1	6.0	17
⊆ / 74	Mrs. R. H.		_	•									_
	Talley	22	do.	30	2.8		2.8	•0	2	6.0	-	14	16
	B. J. Cason	20	do.	94	5.6		19	6	12	26	-	24	33
	W. H. Witt	37	Mar. 20, 1942	90	7.6	3.2	14	6	2	1 0	-	50	32
77	William's Chape		•					_	- (63
504	School	19	do.	39	5.2		1.2	.0	26	3.5	.1	1.0	21
-	I. Forsyth	21	Mar. 16, 1942	268	16	16	4 0	.0	5	71		120	105
79	Rocky Branch	20						- 4	• •	.	•	0	7/ I
- / 00	School	30	Mar. 19, 1942	55	2.8		14	18	12	14	.1	0.	16
	Kan Thigpen	25	Mar. 11, 1942	287	11	27	32	• ,.0	15	98	-	104	エノリ
	Plainview Schoo		do.	98	8.0	• •	17	6	60	5.0	.1	.5	38 I
	R. P. Lowery	20	do.	81	11	3.6	15	55	7	14	-	3.0	42
-	Edwards Est.	17	do.	306	7.6	13	81	• • • •	20	140	-	44	73
_	J. B. Irvin James Howel	19	do.	103	6.4	1.2	25	,.0	2	30	-	38	21
	Joe Justiss	18	Mar. 19, 1942	51	6.0		2.1	6 6	26	7.5		1.0	3 9
	Hays Johnson	7 9 2 2	Mar. 16, 1942	418	52	31	28	0 12	285	6.5 10	.2		259 31
	Connor Bros.	16	Mar. 23, 1942	37	8.8		.7	12	8	41	-	4.5	. 59
	J. C. Tittle	17	Mar. 19, 1942 Mar. 24, 1942	185 60	12 6.0	7.1	36	6	10	23	~	75 6.0	39 39
	H. Thigpen	-	Mar. 19, 1942	369		_	6.4	378	3	25 24	- •3	.0	39 32
	Sunview School	. 25	do.	40	7.2 2.8		145 10	18	12	3.0		1.5	10
-	Mount Moriah	. ~)	QU.	40	4.0	• f	13	10	. 12). U	-	1.,	10
10,	School	20	Mar. 23, 1942	46	.8	1.0	14	12		9.0	.1	12	,6
c/110	T. C. Connor	380	Mar. 16, 1942	2 7 0	ıı.°	3.4	-	232	34	14	.i	.0	i.2
	Connor Bros.	21	do.	127	13	9.4 8.0		12	<i>5</i> 4	54	•1	24	42 65
	Mount Zion	~1	40.	14.	17	0.0	20	12	2	74	-	24	0)
	School	26	do.	40	٠,	1.0	15	31	3	5.5	.1	.0	J.
112	W. C. Whitmore	27	do.	130	<u>a/</u> 4.0	5.8		6	11	44	•1	3 0	4 34
	114 OF HITT STOLE	~_	uo.		4.0	7.0			<u> </u>	44		<u> </u>	24

a/ Less than 3 parts per million.

Add Assign.

b/ Analyzed by the Texas State Board of Health.

Analyses of water from selected wells and springs are given in milligram equivalents per liter on page 19.

Partial analyses of water from wells and springs in Morris County -- Continued

	·						are in	parts p	er million						
<u></u>		Depth		Dat	8 ;	Total	Cal-	Magne-	Sodium and	Bicar-	Sul-	Chlo-	Fluor-		Total
Well	Owner	of	:) !	of	1	dissolved			Potassium				ide	trate	hardness
	1	well	co	llec	tion	solids	(Ca)	(Mg)	(Na + K)	(HCO ₃)	(SO,)	(C1)	(F)	(1103)	as CaCO3
		(ft.)				(sum)			(calc.)	!				!	(calc.)
114	Ed Wallace	27	Mar.	23,	1942		<u>a</u> /	4.4	4.8	6	3	9.0	-	10	18
115	Connor Bros.	29		do.		84	4.4	8.3	9.2	•0	2	24		36	45
130	J. A. Martin	21	Mar.	20,	1942	50	4.8	2.2	11	31	3	9.0	-	. 5.0	21
c/132	J. B. Hall	18	Mar.	18,	1942	193	16	13	21	.0	5	38	-	100	93
133	Mrs. Gladys														
	Wakefield	19	Mar.	13,	1942	22	.8	1.0	5.3	6	3	4.0		5.0	6
134	T. E. Goodwin	25	Mar.	19,	1942	7 5	2.8	1.0	20	12	7	10	_	28	11
	Irvin Bros.	29	Mar.	13,	1942	473	14	31	87	•0	3	138	-	200	164
<u>c</u> /136	J. W. Smith	3 0		do.		74	2.8		20	.0	· 7	30	-	12	16
137	do.	27		do.		321	14	13	73	12	120	56	0.9	38	88
138	Bradfield's														
	Chapel Schoo			do.		- 19	<u>a</u> /	1.0	4.4	.0	2	_	•0	9.0	78 -
	J. G. Wallis	18		do.		177	11	12	29	6	20	54		48	10
140	do.	9		do.		99	2.0	- ,	21	6	7	22	-	38	29
	Oak Grove Scho				1942	25	2.8		2.8	12	5			3.5	16
	Rock Hill Scho	-			1942	24	1.2		1.6	6	2			9.0	17
	M. C. Hervey	Spring	Mar.	23,	1942	18	.8	1.0	3.7	6	2	2.0	-	5.0	6
c /163	Daingerfield														
_	State Park	493			1942	197	10	<u>a</u> /	7 0	177	26	3.5	.0	.0	26
	Oscar Irvin	3 6	Mar.	23,	1942	35	3.2	3.4	3.2	6	2	10	. -	10	22
	J. M. Holt	Spring	Mar.	13,	1942	22	4.4	<u>a</u> /	3.9	12	3		.0	.0	11
	M. F. Gaffney	15		do.		65	.8	<u>a</u> /	17	12	10	18	_	10	17
b /170	City of Dainge	r-													
•	field No. 1	386		-		142	8.8	5.0		34	30	16	-4	.4	-
	T. N. Jones	25	Mar.	23,	1942	32	1.6	4.6	3.0	18	5	4.0	_	5.0	
	McGrede Est.	17	Mar.	13,	1942	244	13	12	51	24	26		-	60	83
	C. S. Turner	23		do.		290	14	9.7	65	. 6	8 6		•0	6 0	76
	Connor Bros.	27	Mar.	24,	1942	175	3.2		48	18	. 5	34	-	72	22
183	Sycamore					•	-								
	School .	Spring	Mar.	13,	1942	82	4.0	5.8	15	6	2	28	.1	24	34
184	do.	23		do.		49	1.6	3.2	A3 10	6	3	14_	.0	14	17

Less than 3 parts per million Analyzed by the Texas State Board of Health.

c/ Analyses of water from selected wells and springs are given in milligram equivalents per liter on page 19

Less than 3 parts per million
Analyzed by the Texas State Board of Health.

4.0 5.8 10 5 2 28 .1 24 34
10 6 3 14 .0 14 17

Analyzed by the Texas State Board of Health.

5.8 10 5 2 28 .1 24 34
25 Analyses of water from selected wells and springs are given in milligram equivalents per liter on page 19.

Partial analyses of water from wells, and springs in Morris County-Continued

3.5 49 9.0	Total hardness as CaCO3 (calc.) 5 6 17
3.5 49 9.0	as CaCO ₃ (calc.) 5 6
3.5 49 9.0	(calc.) ⁵
49 9.0	5
49 9.0	5 6 17
49 9.0	5 6 17
9.0	6 17
	17
•0	- ,
	64
3.0	17
5.0	1
•	
.0	42
•	
2.0	21 .
1.5	224 8
r	ΝÌ
18	11
	28
	43
	27
	16
	.0 3.0 5.0 .0 2.0 1.5

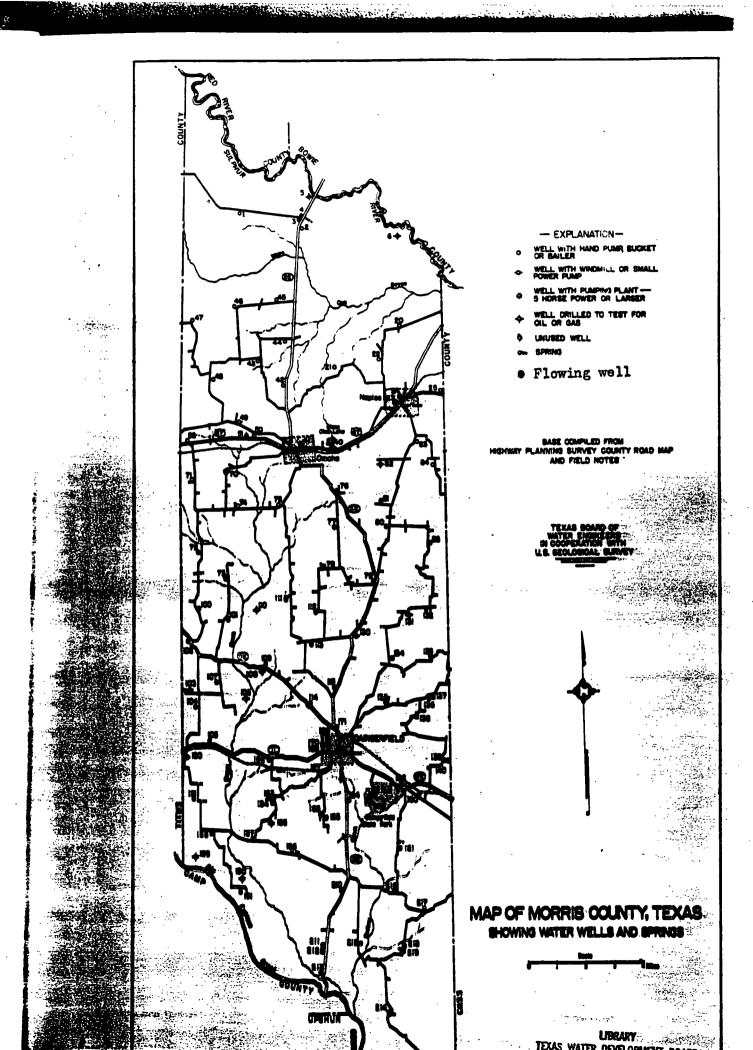
Less than 3 parts per million.
Analyzed by the Texas State Board of Health.

Analyses of water from selected wells and springs are given in milligram equivalents per liter on page 19. Chartant Manyote Continued

1,200

S. S. L. Ches. P.

15	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			A III W	2 1 2 2 2 2 1 1	COUNTY OF	e per l'	lter					_
Well	Owner	Depth of well (ft.)	of collection	cium		Sodium and Potassium (Na + K) (calc.)	bonate	phate !		Fluor- ide (F)	N1- trate (NO ₃)	Total hardness as CaCO ₃ (calc.)	
1	Dutch Love	65	Mar. 17, 1942	12.56	4.16	10.92	0.10	2.34	8.52	16.63	0.05	16.72	-
20	C. E. Heard	30	Mar. 18, 1942	.68	.38	3.24	2.80	.25	.96	.29	_	1.06	
23	City of Naples No. 2		Mar. 11, 1942	.24	.08	7.96	5.20	.42	2.65	0	.01	.32	
41	Thomas and Ware Wate			••		, , , ,					• • •		
	Co.	260	do.	.44	.18	•93	.10	•35	.62	.48	0	.62	
48	Mrs. Annie L. Kline	25	Mar. 17, 1942	.36	.28	.86	1.30	.04	.14	.02		.64	
74	Mrs. R. H. Talley	22	Mar. 16, 1942	.14	.18	.12	0	.04	.17	.23	.	.32	
80	Kan Thigpen	25	Mar. 11, 1942	.54	2.20	1.41	0	.31	2.76	1.68		2.74	
110	T. C. Connor	380	Mar. 16, 1942	.56	.28	4.06	3.8 0	.70	•39	0	.01	.84	
132	J. B. Hall	18	Mar. 18, 1942	.78	1.08	.92	0	.10	1.07	1.61	-	1.86	
136	J. W. Smith	3 0	Mar. 13, 1942	.14	.18	.87	0	.15	.85	•91	-	.32	
163	Daingerfield State				•								
	Park	493	Mar. 22, 1942	.52	0	3.03	2.90	•55	.10	0	0	.52	ţ
180	McGrede Est.	17	Mar. 13, 1942	.66	1.00	2.23	.40	-55	1.97	•97	_	1.66	1
187	W. H. Johnston	37	Mar. 12, 1942	.02	.10	2.20	.3 0	.27	.96	-7 9	-	.12	
212	Arkansas-Louisiana						•				•		
	Gas Co. No. 2	333	Mar. 23, 1942	.34	.08	4.60	4.10	.08	.7 9	.03	.02	.42	
	Marble Stone School	40	Mar. 12, 1942	.14	.08	.41	• 3 ⊃	.04	.28	0	.01	.22	
216	Charlie Jenkins	40	do.	.18	. 38	•91	.10	.10	•79	-48	-	.5 6	



1509 Main Street, Suite 900 Dallas, Texas 75201-4809

214/744-1641



ICF TECHNOLOGY INCORPORATED

TO: Dave Wineman, EPA Region VI RPO

THRU: K. H. Malone, Jr., FITOM

THRU: Tim A. Hall, AFITOM It for TAH

FROM: James A. Harris, Jr., FIT Geologist

DATE: September 26, 1988

SUBJECT: PA Reassessment for Lone Star Steel Company

Morris County, TX TDD F-6-8805-6 EPA #TXD007323397 PAN #FTX0763PAA

Lone Star Steel Company (LSS) is an ore miner, processor, and steel pipe and tube manufacturer. The facility is registered with the TWC as a generator, treater, storer and disposer of hazardous waste. It is located on an 800 acre tract of land in Morris County approximately 2.5 miles east-southeast of Lone Star, Texas. The town of Lone Star has a population of 2,023 and uses water from the Lake of the Pines for domestic, industrial and irrigational purposes. There is no known documentation of groundwater use in the town. The LSS plant uses Ellison Creek Reservoir for drinking and industrial purposes. The site is in the drainage area of Segment No. 0403 of the Cypress Creek Basin, Latitude 32° 55′ 20" N, Longitude 94° 42′ 57" W.

The facility has been in operation since 1942. There are at least eight SWMU's at LSS: a landfill for general use, a landfill containing cupola slag and flue dust, an old acid pit for the disposal of phenolic wastes, three pits for disposal of acid waste, an old mine trench used as a barrel dump, a landfill for ore plant waste, a waste pile for disposing of filter cakes from scrubbers, and a landfarm for oily waste. LSS generates used oils, metals and spent solvents. In addition, up to 1983, LSS stored PCB's on-site and disposed of them off-site. The hazardous wastes generated and managed at LSS are corrosive, flammable and toxic. The facility installed a groundwater monitoring program in 1981. The program consisted of 47 wells some of which were installed to a depth of 56 feet. However, available data does not list the depth of all the wells.

In 1983, the facility received two notifications from the EPA concerning NPDES permit violations.

In 1984 an EPA Potential Hazardous Waste Site - Site Inspection report was performed at the facility and identified releases of hazardous waste into the groundwater regime and surface waters adjacent to the site. The inspection also identified inactive SWMU's. These included the old mine trench used as a barrel dump, an acid pit, the inactive portion of an active landfill, a pond used to dispose of phenolic wastes which was filled with slag then capped and turned into a parking lot, the inactive portion of an active waste pile, and one of the three acid pits.

In 1985 the EPA issued a Potential Hazardous Waste Site Inspection Report which summarized recommendations made regarding the site. The EPA was in agreement with the decision for continuous groundwater monitoring and private remedial actions under the supervision of the TDWR. At this point, the facility was in compliance with the current RCRA Permit.

The TWC conducted an inspection of the facility in 1985 to survey LSS's compliance with TWC rules pertaining to solid waste management. The TWC identified unauthorized discharges of industrial solid waste into the groundwater regime. Constituents detected above permissible levels included chromium, nickel, barium, arsenic, sulphates and a low pH of 2.1.

In 1986 the TWC issued an agreed order with LSS for inadequate well locations. The order stated no violations although two additional wells were requested by the TWC.

In 1987 the TWC and LSS held a corrective action facts meeting. During the meeting, LSS revealed a closure plan that had been submitted to TWC Permits Division 2 years earlier, but had never been approved by the Enforcement Division. The plan included proposals for well locations, which would have been adequate had the plan been approved and implemented. Late in 1987, the TWC issued LSS a Notice Of Violation (NOV) letter that indicated 15 alleged violations identified in previous inspections. An industrial solid waste follow up inspection followed the NOV to determine the actions taken in response to the NOV letter.

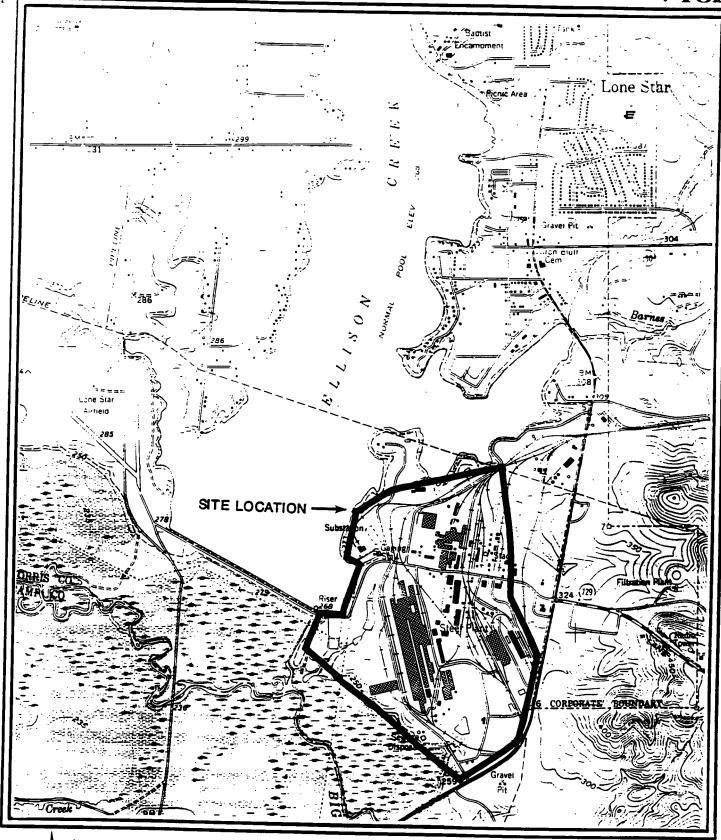
As a result of the 1987 NOV, the TWC is currently petitioning for a second agreed order to resolve the remedial operations not yet implemented under the first agreed order and the private remedial actions agreed upon in 1985. Susan Ferguson of the Hazardous and Solid Waste Enforcement Division at the TWC said the facility is under litigation and the file on LSS is closed to the public until the second agreed order is issued. She said it would be at least 60 days until the file would be open.

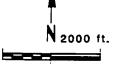
The facility is under the enforcement of the TWC and an agreed order will be issued within 60 days. Based on lack of current data and inability to access TWC files due to litigation, it is recommended that after the agreed-order is issued, a review of the TWC file be performed. Review of this data will assist FIT in evaluating the potential hazards associated with this site.

•			
RECORD OF COMMUNICATION			r (Specify)
TO: Susan Ferguson TWC Hazardous & Solid	FROM: James A	Harris, Jr.	DATE: 9/14/88
Waste Enforcement Div. (512) 463-8177	ICF/FIT (214) 7	eologist -1641	TIME: 1430
SUBJECT: What Is The Status	of The Lon	Star Steel Faci	lity?
SUMMARY OF COMMUNICATION:			
Ms. Ferguson said the TWO resolve earlier violation remedial actions taken by would not be available to This would not be for and	ns identified the faciliate the public	in past inspect: . She also said ntil the agreed	ions and private d the file on LSS
CONCLUSIONS, ACTION TAKEN O	OR REQUIRED:		
INFORMATION COPIES TO:			
EPA FORM 1300-6 (7-72) Replaces EPA HQ Form 5300-	-3 Which May	Be Used Until Sup	oply is Exhausted.

RECORD OF COMMUNICATION		Specify)
O: Marriane Buchannon ssistant General Manager	FROM: James A. Harris, Jr.	DATE: 9/15/88
E Texas Water District	ICF/FIT Geologist (214) 744-1641	TIME: 1330
What Is The Water Usage For Lone Star City And The UBJECT: Surrounding Region?		
Reservoir is owned by Lor	of the Pine supplies Lone Star ne Star Steel and provides dri	nking and
industrial water for the plant. LSS used to sell their water as a supply to the city of Lone Star 4 or 5 years ago but the city let the contract expire and moved onto Lake of the Pines as their source. She also said the city does not use any groundwater. To her knowledge, groundwater use in the surrounding area was confined to shallow wells, but has been mostly discontinued. She also said that the population estimate of Lone Star was 2,023 people.		
ONCLUSIONS, ACTION TAKEN	OR REQUIRED:	
INFORMATION COPIES TO: EPA FORM 1300-6 (7-72)		
	-3 Which May Be Used Until Sup	oply is Exhausted.







SCALE 1:24000

Site Location Map LONE STAR STEEL, CO. LONE STAR, TX TDD NO. F-6-8805-6 CERCLIS NO. TXD007323397



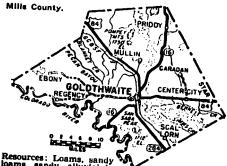
LONE STAR, TX

COMPLIMENTS OF

SEWALL PAINT & VARNISH CO. OALLAS, TEXAS

PERFECTION IN PROTECTION SINCE 1877

and small oaks. Created from parts of Brown. Comanche, Hamilton, Lampasas Counties 1887. Organized same year. Named for John T. Mills, district judge during Republic. Alt. 1,200-1,750 ft., ann. rainfall 29.55 in., mean ann. temp. 65.5°. Growing season, 235 days.



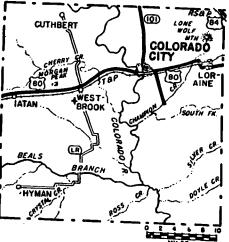
Resources: Loams, sandy loams, sandy, alluvial in loams, sandy, alluvial in bottoms. Post oak, live oak, pecan timber. Building stone, clays, evidences metallic minerals. Crops: Oats, grain sorghums, barley; little cotton in recent years. Large increase in peanuts, 1 agr 510 lbs.

cotton in recent years. Large increase in peanuts, 1,681,510 lbs.
Livestock: 124,012 sheep, 69,599 goats, 28,478 cattle. Wool shorn, 798,818 lbs. Much mohair produced. Large chicken- and turkey-raising industry dairying increased in recent years.

Area sq. mi. 734 Income ... \$4,012,000 Population ... 7,951 Cropland (a) ... 70,010 Pop. sq. mi. 10.8 Bank dep ... \$2,44,000 Tax value ... \$4,696,975 Retail sales ... \$2,537,000 Total value ... \$3,393,950 Auto reg. ... 2,064

Goldthwaite (1.414), county seat, market and shipping point for farm and ranch country; ships poultry, dairy products, wool, sheep, cattle. Mullin (404) market and shipping point for northwest

*MITCHELL COUNTY



In West Texas. Undulating to hilly topography, raversed, north to south, by Colorado; largely rairie, some mesquite timbered country. Landark is Lone Wolf Mountain NE of Colorado City, and los for Indians and early settlers. Created from evar County 1878, organized 1881. Named for 11 and Asa Mitchell of Austin's colony. Alt. 900 to 2,500 ft., ann. rainfall 21.33 in., mean n. temp. 64.5°. Growing season, 218 days. Resources: Dark loam in valleys; sandy loam, d loam with clay subsoil on uplands. Oil procition 698,728 bbls.; deposits brick and tile clay, stash. Mesquite timber, underground water.

Crops: 25,000 bales cotton; 949,373 bu; grain sorghums; forage, oats, wheat, peanuts, alfalfa. Increase in farming in recent years. New crops, hairy vetch, Austrian winter peas, Abruzzi rye.

Livestock: 28.113 cattle; 22.067 sheep; poultry raising; dairying a leading industry. A balanced crop-growing and livestock-raising county.

Area sq. mi. 922 Income \$8,524,000 Population 12,477 Cropland (a) 131,974 Pop. sq. mi. 13.5 Bank dep \$5,506,000 Tax value \$16,838,476 Auto reg. 3,472

Colorado City (7,300), county seat, is farm ranch and oil center. Gins, compress, cottonseed oil mill, petroleum refinery, cattle-shipping point. Has grown rapidly in recent years. Colorado Frontier Roundup in September. Loraine (700) in east part of county is center for farming, and ranching area with co-operative association cheese plant and dairy industry, cold storage lockers.

*MONTAGUE COUNTY



On divide between Red and Trinity basins of North Texas, in West Cross Timbers and Grand Prairle. Red River forms northern boundary. Created from Cooke County 1857, organized 1858; named for Daniel Montague, early Texas Indian fighter, pioneer surveyor, commander veyor, commander company in Mexican War. Alt. 800-1,250 ft., ann. rainfail 29.97 in., mean ann. temp. 64.5°. Grow-ing season, 229

Resources: Sandy loams on uplands,

in bottoms. Post oak black sandy loam pecan, hickory. Oll production 5.823,110 bbis. Natural gas produced; existing in quantity are cross. Diversity.

brick and pottery ciays, coal, stone.

Crops: Diversity of production with corn, grain sorghums, oats, cotton, wheat. Large increase in peanut production. Noted for fruit and truck: peaches, plums, apples, grapes, melons, sweet and irish potatoes. Well adapted to grape culture. Hairy vetch a new money crop.

Livestock: Chicken, egg and turkey industries highly developed; large dairy industry; beef cattle raising. Large market volume of poultry, dairy products and beef.

The area of Montague County was a favorite of the aborigine Indians and many relics are found. Site near Nocona of Old Spanish Fort built in era of Spanish-French conflict along Red River.

Area sq. mi... 937 Income ... \$12,124,000
Population ... 20,442 Cropland (a) ... 67,813
Pop. sq. mi... 21.8
Pop. sq. mi... 21.

Montague (284), county seat, is farm market in center of county. Bowle (5,000) is principal market and shipping point with notable poultry industry and diversified truck and staple crop producing area; cheese factory. Nocons (2,805) is known for its large boot and shoe industry originating in boot shop for cowboys in pioneer days. Saint Je (1,010) is farm market in east part of county.

*MONTGOMERY COUNTY

In Southeast Texas, largely in Pine belt but with southwest fringe on Coastal Prairie. Level in southeast half; rolling to hilly in northwest. Drained by San Jacinto River. Created from Washington County 1837, organized same year. Named for Richard Montgomery, delegate from Dutchess County in First New York Provisional Assembly, 1775. Alt. 180-300 ft., ann. rainfall 49.17 in., mean ann. temp. 68.9°. Growing season, 260 days.

*1For explanation of all signs, symbols, abbreviations and sources, map and text, see p. 438

Resources: Sandy, sandy loam, loams, alluvials in bottoms. Shortleaf and lobiolity pine and oak, gum and other hardwoods cut in amount of 70,000,000 bd. ft. yearly; also 51,000 cords pulpwood; 500,000 crossties; 550,000 acres in commer-



cial timbers. Large oil producer, 19,798.804 bbls.; large natural gas production; carbon black; brick and tile clays available.

Crops: Timber farming increasing; peanuts, Irish and sweet potatoes, cabbage, black-eyed peas, melons, cantaloupes, fruits produced for market; little staple crop production.

Livestock: 33,275 cattle; 28,591 hogs; dairying and poultry raising for the near-by Houston market. Improvement of livestock breeds in recent years.

Wild game resources with hunting and fishing. Annual fox hunt. Introduction of game animals in excellent forest cover expected to increase game oppulation. Part of county is in Sam Houston National Forest.

 National Forest.

 Area sq. mi.
 1,090
 lncome
 \$15,954,000

 Population
 23,055
 Cropland (a)
 15,085

 Pop. sq. mi.
 21.2
 Bank dep
 \$5,718,000

 Tax value
 \$61,085,204
 Retait sales
 \$8,346,000

 Total value
 \$152,713,010
 Auto reg
 5,811

Conroe (4,624), county seat, center of lumber, oil and farming area, has carbon black plant, oil well repair, machine shops and foundries, recycling plant, furniture factory, creosoting plant, lumber mills. Good schools, hospitals. Rapid growth in recent years and much civic improvement. Willis (904) and Montgomery (750) are market and shipping centers in north and west parts, respectively.

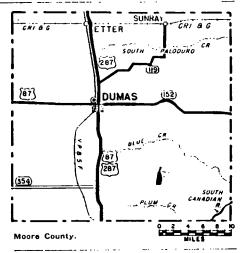
On North Panhandle Plains with south and southeast parts in breaks of Canadian River which crosses southeast corner. Remainder level. which crosses southeast corner. Remainder level, grassy prairie in native state, but now largely in cultivation. Created from Bexar Territory 1876, organized 1892. Named for Commodore Edwin Ward Moore, Commodore of Texas Navy. Alt. 3,000-3,400 ft., ann. rainfail 19.7 in., mean ann. temp. 57°. Growing season, 183 days. Resources: Largely loam, sandy loam soils. One of principal producers in Panhandle natural gas field, world's largest, supporting much of county's population; 23 plants producing carbon black, gasoline, natural gas. Oil production 155,896 bbis.

Area sq. ml... 912 Income\$9,155,000
Population ... 10,500 Cropland (a) ... 167,785
Pop. sq. ml... 1.5 Bank dep ... \$3,338,000
Tax value ...\$11,297,745 Retail sales ... \$2,572,000
Total value ...\$11,297,745 Auto reg... 3.054

Crops: 215,000 acres in wheat; 30,000 in grain sorghums. A wheat-farming county with 2,500 acres average farm size, size of farms increasing with mechanization. Wheat production, 2,801,636 bu.; barley, 445,170 bu.; oate, forage.

Livestock: Hereford cattle on ranches in broken

areas and interspersed with wheat farms; 10,000 to 20,000 head placed on wheat pasturage in



Dumas (4,000), county seat, has grown rapidly as commercial center of area with large natural gas and wheat production and industries including gas and wheat pitchiston in must be strong and carbon black plants, oil refinery, three gasoline-stripping plants, nitrate plant, helium plant. Sunray (1,250) is wheat, natural gas and carbon black center in north part.

*MORRIS COUNTY



In Northeast Texas, on divide between Sulphur River and Big Cypress Bayou which bound it on north and south, respectively. Center part broken with low mountains. tain ranges; north part rolling to hilly Created from Titus County 1875, organized same year. Named for W. W. same year. Named for W. W. Morris, prominent East Texas lawyer. Alt. 300-450 ft., ann. rainfall 41.87 in., mean ann. temp. 60°. Growing season, 231 days.

Resources: Sandy soils on uplands, alluvials in bottoms, chocolate in more elevated areas. Timber cut commercially for pulp, lumber—pine, gum, post oak, white oak, beposits lignite, iron ore, clay. Deposit of iron ore in southern part sufficient for clay. Deposit of iron ore in southern part sufficient for large industrial production 100 years; \$25,000,000 blast furnace and coke ovens built during war by U.S. Defense Plant Corporation sold in March. 1947, to Texas company which will develop enterprise. Capacity 4,000,000 tons pig iron a year. Plant located ten miles south of located ten miles south of Daingerfield.

Daingerfield.

Crops: A diversified crop county with production of cotton, peanuts, corn, sweet potatoes, Irish potatoes, tomatoes, melons, peaches.

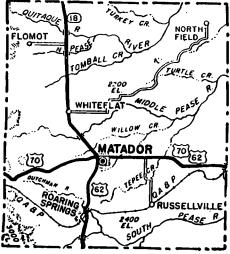
sweet corn, peas, apples.

Livestock: Beef and dairy cattle; hogs. Milk shipped from northern part of county. Moderate poultry raising.

Daingerfield State Park attracts vacationists.

	Income\$4,012,000
	Cropland (a) 21,875
	Bank dep \$3,946
Tax value \$3,417,983	
Total value \$6,835,968	Auto reg 1,748

Daingerfield (1,500), county seat, has prospects of growth because of location ten miles from big iron industry. (See above.) Serves as farm market and shipping point. Naples (821) and Omaha (623) five miles apart in north part are fruit and vegetable market and shipping points.



*MOTLEY COUNTY

*MOTLEY COUNTY
Broken, rolling terrain, with level land between neaks, on rolling plains of Northwest Texas immediately below Cap Rock. Drained by North, diddle and South Pease Rivers. Created from Jexar Territory 1876, organized 1891. Named for Pr. Junius William Mottley, killed in Battle San acinto (difference in spelling because of error in latute creating and naming county). Alt. 2,200-000 ft., ann. rainfail 21.61 in., mean ann. temp. 1.4*. Growing season. 218 daya.

1.4. Growing season, 218 days.

Resources: Soils stiff black clay to sandy, uneriald with clay, red clay subsoil. Part prairie; art mesquite woodland with some small oaks and star. Minerals—bleaching clays, lignite, sand, ravel, caliche; little production.

Crops: 3.914 bales cotton, grain sorghums, heat, peanuts, berries, grapes, peaches and ther fruit and truck for local use.
Livestock: 59.688 cattle all types, only 1.722 liked. Primarily a ranching area, but hogs, neep, horses, dairying and poultry bring moderate

Come.

rea 8q. ml... 1.011 Income\$3,437.000
ppulation ... 4.994 Cropland (a) ... 106,287
op. 8q. ml... 4.9 Bank dep ... \$2,088.000
ax value ... \$5,161.079 Retail sales ... \$2,116,000
otal value ... \$10,322,158 Auto reg 1,141

Matador (1,376), county seat, trade and shiping point. Headquarters famous Matador Ranch;
ependent on cotton, wheat, cattle economy.
oaring Springs (514) is retail and recational center named for spring of ne water.

*NACOGDOCHES COUNTY

Rolling to broken, wooded area with wel plateaus and valleys in Pine Belt (East Texas. Drained by Angelina and troyac Rivers and tributaries. One of riginal counties, created 1836, organized 1837. Named for Nacogdoches Indians. Alt. 100-600 ft., ann. rainfail 47.02 in., mean in. temp. 65.4°. Growing season, 236 days. Resources: Soils gray sandy, red sandy, red diff on hills; dark sandy alluvial, red loam in wlands. Timber cheft natural resource, lumberg main industry—center of shortleaf pine belt, inn. oak, magnolla. Value of wood production in 45 was \$5,000,000. Small oil production; gas, rick and tile clay. Lignite deposits.



Livestock: Dairying main item, with annual income \$2,000,000. Income from beef cattle, hogs, poultry (especially broilers). Dairy income five times that of 1940.

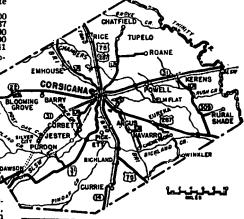
Many points of historic interest. Hunting, fishing facilities attract visitors.

Area sq. mi... 963 Income\$19,391,000
Population ... 35,392 Cropland (a) 56,710
Pop. sq. mi... 36.8 Bank dep ...\$16,667,000
Tax value ...\$12,339,830 Retail sales...\$12,239,000
Total value ..\$24,679,860 Auto reg. ... 6,055

Nacogdoches (9,300), county seat, one of Texas' oldest municipalities established originally around Guadalupe Mission by Spaniards in 1716, permanently established 1779. Historical landmarks include Old Stone Fort, Adolphus Sterne Home, Peter Eills Bean Home, Old North Church (first Baptist Church in state, 1838). Industries include sawmills, dress factories, brass factory, creeoste plant, fuller's earth, feed and cottonseed oil mills, brick plant, bleaching clay and others. Home of Stephen F. Austin State Teachers College, Annual events include watermeion festival in July, Cushing (473). Garrison (770). Chireno (500), Appleby (250) are farm trading points.

*NAVARRO COUNTY

In North Central Texas with rolling terrain of Biackland Prairies but with small eastern part in



*fFor explanation of all signs, symbols, abbreviations and sources, map and text, see p. 416.

Post Oak Belt. Drained by Trinity which forms northeast boundary. Created from Robertson County 1846, organized same year. Named for Jose Antonio Navarro, Texas patriot, signer of Texas Declaration of Independence. Alt. 300-500 ft., ann. rainfail 36.91 in., mean ann. temp. 66.2°. Growing season. 250 days.

Resources: Black waxy, loam soils. Post Oak, pecan, cedar; small production. Oil production 614,067 bbls., gas. brick. Clay. Navarro has longest record of continuous oil production of any county in Texas. Lignite deposits.

Crops: 28,265 bales cotton, corn. grain sorghums, oats, barley, wheat, alfalfa, hays, sweet potatoes, onlons, pecans, berries, peaches, watermelons and other fruit and truck marketed. Legume crops spreading. County has diversified crop income. Post Oak Belt. Drained by Trinity which forms

Legume crops spreading. County has diversified crop income.

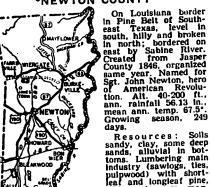
Livestock: 49,567 cattle all types, with 6,558 milked for production 2,369,066 gals. Beef cattle, hogs, horses and mules, dairy and poultry products marketed. Egg production 1,155,620 doz., turkeys raised 19,150. Some honey marketed. In last decade Navarro has balanced crops with stock raising, emphasizing fine Herefords which are prize-winners.

Area 80, ml... 1084 Income.

prize-winners.

Area sq. mi... 1,084 Income ... \$37,351,000
Population ... 51,308 Cropland (a) ... 230,238
Pop. sq. mi... 47.3 Bank dep ... \$25,194,000
Tax value ... \$21,102,223 Retail sales ... \$17,289,000
Total value ... \$22,755,557 Auto reg ... 9,899
Corsicana (18,500) county seat, main retail, wholesale, shipping center with balanced income from oil, crops, livestock, distribution. Industries include food products, steel fabrication, refrigeration and air-conditioning equipment, textile mill, hatcheries, creameries, cottonseed oil mills, oil well supply, farm machinery, garment factories, compress, oil refinery, poultry dressing and others. Good hospitals. Navarro Junior College, Texas State Home and School for Orphans and 1.O.G.F. Children's Home. Local market centers include Kerens (1,287), Dawson (1,155), Blooming Grove (821), Frost (671). (821), Frost (671).

*NEWTON COUNTY



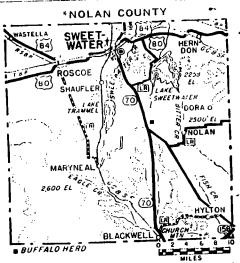
sandy, clay, some deep sands, alluvial in bot-toms. Lumbering main industry (sawlogs, ties, pulpwood) with short-leaf and longleaf pine, white oak, gum, mag-nolia, cypress. Brick clay, lignite, gravel, clay, lignite, building stone. oil production.

Crops: Corn, rice, hay and other feed-stuffs, black-eyed peas, peanuts, sweet and Irish potatoes, sugarcane syrup, berries, pears, pears, pecans, watermelons, cabbage, tomatoes, peas, some cotton and other fruit and truck marketed; 615 tung trees.

Livestock: 14.880 hogs, beef and dairy cattle, sheep and goats, poultry, horses and mules raised.

Area sq. mi. 941 Income ...\$5.051,000
Population ... 13.700 Cropland (a) ... 14.354
Pop. sq. mi. 14.6 Bank dep ... \$1.893,000
Tax value ... \$4.497,860 Retail sales ... \$2,244,000
Total value ... \$12,651,028 Auto reg ... 1,742

Newton (886), county seat, main trade point, lumber center. Wiergate (900) is rail terminus and lumber center. Dowsyvills (800) is lumber center. Burkevills (800) is trading point.



In West Texas; rolling uplands, with broad level valleys and occasional plateaus with interspersed prairies and mesquite woodlands; traversed from east to west by Callahan Divide, the watershed boundary between Brazos, Colorado Basins. Created from Bexar Territory 1876, organized 1881. Named for Philip Nolan, explorer into Spanish Province of Texas, who was slain in 1801. Alt. 2,100-2,700 ft., ann. rainfall 24.35 in., mean ann. temp. 64.27. Growing season, 220 days.

Resources: Sail mainly reddith dark ham some

Resources: Soil mainly reddish dark loam, some black waxy lime sand, some sindy. Hackberry cottonwood, scrub post oak, mesquite. Commercial gypsum products; strontium celestite commercially mined; also deposits silica sand, manganese. Small oil production, and sand adaptable to glass uses.

Crops: 10,168 bales cotton, corn, grain sorghums, oats, barley, wheat, hays and other feed-stuffs. Peaches, grapes, other fruit and truck for local use.

Livestock: Beef cattle, dairying poultry raising, hogs, sheep and gouts, wool and mohair, horses bring income. Milk production 1,642,574 gals., wool shorn 517,869 los.

Lakes Sweetwater and Trammel afford recreational facilities.

Area sq. mi. 921 Income ... \$16,693,000
Population ... 20,000 Cropland (a) 112,917
Pop. sq. mi. 21.7 Bank dep ... \$9.528,000
Tax value ... \$11,485,025 Retail sales ... \$10,789,000
Total value ... \$29,712,562 Auto reg ... 5,868

Sweetwater (14,500), county sent, main trade, shipping, distribution center. Industries include large gypsum products plant, cottonseed oil milipacking concerns, oil refinery, railroad shops, agricultural machinery, cotton gins, sand and gravel, compress, creameries, hatcheries, drilling muds and others. Annual events include Four-County Stock Show and July 4 Boat Races. Other trading points are Rosco (1,166) in rich farming center and Blackwell (400), market for ranching and farming country in south part of county.

*NUECES COUNTY

On the Lower Coustal Plain of Southeast Texas facing ildewater of Corpus Christi Bay with portion of county lying on Mustang and Padre Islands. Flat lands with gentle slope to coust; part prairie, part woodland and brush in native state, but now largely in cultivation. Created from San Patriclo County 1846, organized same year. Named for Nueces River. Alt. sea level to 180 ft. ann. rainfall 26.43 in., mean ann. temp. 70.7°, Growing season, 335 days.

Resources: Solis dark sandy loam, light sandy, some black waxy, clay loam. Mesquite, post oak, live oak, huisache. Oil production 15,201.888 bbls.

*1For explanation of all signs, symbols, abbreviations and sources, map and text, see p. 436.

RECORD OF COMMUNICATION	(Record of Item Checked Below) X_Phone CallDiscussionField Trip ConferenceOther(Specify)		
TO: Michael Watson, FIT Chemist	From:	Date: 1-3-89	
e luciael Watson	Michael Moore, TWC	Time:	
	(512) 463–7761	2:40 to 3:10	
SUBJECT: T & N Lone Sta	ar Warehouse		
SUMMARY OF COMMUNICATION	V		
Michael Moore has inform	med me that:		
1) financial status of	T & N is unknown		
2) current parent compa	any is uncertain		
(Texas & Northern I	ndustries or Lone Star Technilogies,	Inc.)	
3) permit for landfill	was approved. The pit contents wer	e to be	
transferred to the	landfill but a change in regulations	prevents	
the waste from being	the waste from being moved. (Possible lawsuit in progress)		
4) All monitoring wells) All monitoring wells are upgradient of the spring and the spring was		
already there before	already there before the pit was used for disposal. They were the end		
result of a strip m	result of a strip mining operation.		
5) He believes that the high content is due to the overburden. Not the			
pipe dope compound.	pipe dope compound.		
6) Unknown quantity of	6) Unknown quantity of waste in pit.		
7) Pipe dope compound h	7) Pipe dope compound has a high percent of Zn and Pb.		
8) December 5, 1986, cl	8) December 5, 1986, closure plan lists J. D. Shiver and J. T. Pennigton		
as the current contacts to T & N.			
9) pH of water usually	9) pH of water usually about 5.6		
10) That the solvent was	10) That the solvent was manually dumped into the pit.		
INFORMATION COPIES TO:			



TWC Reg. No. 33373

09/86

TEXAS WATER COMMISSION Solid Waste Compliance Monitoring Inspection Report

C.O. Use Only
TWC District 5
EPA ID No.
NAME OF COMPANY
MAILING ADDRESS F.O. BOX 300 Lin Star Tines 75668 Tel. 214-656-3461
SITE LOCATION Hw, 250 3 miles east of Lexister Texas Tel.
COUNTY Rights TYPE OF INDUSTRY For stores
GENERATOR CLASSIFICATION: Industrial Municipal GOVERNMENT FACILITY
Part A Application submitted to the State? Affidavit of Exclusion submitted to the State? Was a written exclusion granted by TWC? Will this facility require a RCRA permit? Yes No / To EPA? Yes No / If yes, Date: Yes No / Yes No / If yes, Date:
CURRENT WASTE MANAGEMENT (Haz"H", Class I NonHaz"NH", Class II-"II", Class III-"III")
Generator NHT Treatment Storage NNH Disposal NNT Transporter
HW Exemptions: 90-Day Storage 🗸 Other
SQC : Total HW Generation Per Month: <100 kg. 100-1000 kg.
H W Facilities (circle facility codes): C T SI WP LT LF I TT TR WDW 0
N H Facilities (circle facility codes): C T SI WP LT LF I TT TR WDW 0
Anomalies in the above information will be addressed by: (a) Enforcement in progress, (b) Central Office, (c) District Office, (d) Owner/Operator
Type of Inspection (circle): CEI SQG CL CD SA OT FO SW
Inspector's Name and Title Keun Phillips / FOSI
Inspection Participants Ton Beasley Stees byd - Tow Mark Ingde - Low Ske Steel
Date(s) of Inspection 3.30-8)
Approved: John 11. Manager Signed: Xin Manager Date
2 9 1987 Page 1 26 1

Page 1 of 1

TEXAS WATER COMMISSION Solid Waste Inspection Report CONTENTS SHEET

COMPAN	Y NAM	1E T-N Lone Stee Warehouse Co
	1.	Code Sheet (0814)
/_	2.	Inspection Cover Sheet 2b. Special Insp. Cover Sheet (HB.2358)
	3.	Generators Checklist 3b. Small Quantity Generator Checklist
	4	General Facilities Checklist
	5.	Transporters Checklist
	6.	Facility Component Checklists (codes) a. Containers (C) b. Tanks (T) c. Surface Impoundments (SI) d. Waste Piles (WP) e. Land Treatment (LT) f. Landfills (LF) g. Incinerators (I) h. Thermal Treatment (TT) i. Chemical, Physical, or Biological Treatment (TR) j. Other (O)
	7.	Closure/Post-Closure Checklist 7b. Closure-In-Progress Checklist
	8.	Groundwater Monitoring Checklist Group
	9.	Notice of Violation (NOV) Letter
	10.	Interoffice Memorandum (IOM)
	11.	Registration
	12.	Maps, Plans, Sketches
	13.	Photographs
	14.	Sample COC Tags
	15.	Other (describe) Whichvilchet, France Det letter Closur Vlan Downat Matifiel Vojux Vlan Well boring Logs
		required Checklist is omitted, explain:

GENERATORS CHECKLIST

	ion A - NOTIFICATION and WASTE DETERMINATION		**
	Has generator completed an appropriate hazardous waste determination for each solid waste produced?	YES	NO_
(Check the method used for determination: a. Listed as a hazardous waste in 40CFR Part 261, Subpart D. b. Process or materials knowledge. c. Tested for characteristics as identified in Part 261, Subpart C (If equivalent test method is used, attach a copy)		
TE	: If a hazardous determination has not been made or appears to be incorrect inspector should obtain a sample of the waste for analysis and explain in		ents.
Į	Has the facility received an EPA ID number?	yes 🗸	NO_
	Is notification of all waste streams generated correct?	YES	мо
	Is notification of all waste management (TSD) methods correct?	YES	NO
1	Does facility generate, treat, store, or dispose of PCB wastes? YES If yes, describe storage and disposition:	NO <u>/</u>	
-			
	Does this facility generate used oils ? If yes, describe storage and disposition:	NO	
	Does this facility generate used oils? If yes, describe storage and disposition: Heavy equipment cits, locanotive cits, and will cle cits. The cits are stand at facility, and will cle cits.	, —	
i	If yes, describe storage and disposition:	chu gi	<u>.</u>
1	If yes, describe storage and disposition:	NO_	<u>.</u>
1	If yes, describe storage and disposition: lawn ignipment cits, locantist cits, and which cits. The cits are stand at facility described. lawn ignipment cits, locantist cits, and which cits. The cits are stand at facility. All lawns this facility generate spent solvents?	NO_	S. Mr.

Sec	tion B - SPECIAL CONDITIONS			
1.	If generator has received from or transported to a foreign entity any hazardous waste, has the appropriate notice been filed with the EPA Regional Administrator?	N/A <u>./</u>	YES	ио
2.	Was the waste manifested and signed by the foreign consignee?	N/A	YES	NO
3.	Has confirmation of waste transport out of the country been received by the generator?	N/A	YES	NO
Sect	tion C - RECORDKEEPING and REPORTING (335.9*, .10, .13, .70-71)			
۱.	Does the generator maintain the following records and reports (if applicable) for the necessary three years?			
	 a. Shipping Manifests b. Monthly off-site shipment summaries c. Monthly on-site land disposal summaries d. Monthly waste receipt summaries *e. Company records of industrial solid waste T/S/D activities 	N/A N/A N/A N/A	YES YES YES YES	NO NO NO NO
	*f. Company records of municipal haz. waste T/S/D activities for generators of >100 kg/month, etc. g. Tests and analyses of HW determinations h. Annual reports	N/A / N/A / N/A	YESYES	NO NO
2.	Has generator submitted exception reports to TWC for any original (white) copies of manifests not received back?	N/A <u>/</u> .	YES	NO
3.	Have any spills, unauthorized discharges, or threats of such discharges occurred? If Yes: a. Have they been reported? b. Have they been remedied? (Explain)	YES N/A N/A	NO VES YES	NO
	+++ IF GENERATOR DISPOSES OF WASTES ON-SITE ONLY, WRITE N/A	IN SECT	CION D+	H
Sec	tion D - PRETRANSPORT and MANIFEST REQUIREMENTS			
1.	Identify primary off-site disposal facilities:			
	Solety ble south forthy Maton Town		 	
				 -
2.	Are off-site disposal facilities RCRA-permitted or operating under RCRA interim-status standards?	N/A	YES	NO
3.	Are TWC manifests properly completed?	N/A	YES	NO
	++++ STOP & SIGN HERE IF FACILITY QUALIFIES AS A SMALL QUANTITY Signed:	genera	TOR +	+++

	×	1
-	-	•

Section D - (Continued)

4. Do containers used to hold waste meet DOT packaging requirements (49CFR Parts 173,178,179) before being offered for transport? (if observed)

N/A / YES __ NO___

5. Does generator label and mark each package in accordance with 49CFR Part 172? (if observed)

N/A / YES NO NO

6. Is each container of 110 gallons or less marked with the required hazardous waste warning label?

N/A / YES NO___

7. Does generator placard off-site waste shipments in accordance with DOT regulations (49CFR Part 172, Subpart F)? (if observed)

N/A / YES NO

Section E - ACCUMULATION TIME EXEMPTION

NOTE: A facility may accumulate and store hazardous wastes in containers or tanks for up to 90 days without a permit.

1. Is the beginning date of Accumulation Time clearly indicated on each container?

N/A YES NO

2. Is each container or tank clearly labeled or marked "Hazardous Waste"?

N/A YES NO

NOTE: Attach a Container Checklist for each container storage area.

NOTE: Attach a Tanks Checklist for each tank (or each group of similar tanks).

NOTE: If this is a TSD Facility, proceed to General Facilities Checklist.

TWC Reg. No. 33313
Checklist Ing. Core Shut
BOX 300, not 187
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Juso, should be (740335.
it the confunction Tell soil
or not sup on this inspection
for tity of (lastill)
desure is planned for
to and heter The obtaining
with land fill
^

COMMENTS SHEET

Section Addres 1 The confunction should include for box 300 net 150	
(TAC 335, U)	
Section fines I Ten should indicate who the new contact fuson should be (Al	375
brown that both a de breeze si was a land of the an Table	
George Hast listed on the 6-13-86 WOR is no longer with the conformy. Tents	
they would have to choose another contact person. Ten wer not sure on this ins	671.07
who hir would be.	
RCR4	
Section funt 1 Tow her submitted a change flow for for lity of Chastill	<u>/</u>
which was appoint to the TWC on 12-586. A chan closure is planned for	
the land fill. Closure is definient upon have the Stret la and heter Inc. obtain	عوب
a permit (HW-50057) to construct the new hosoiday with lightill	
<u> </u>	
uno in Petac Inc?	
Section /	_
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TWC Reg. No	. 33373
Checklist_	Electrical

COMMENTS SHEET

Section A(1) 1 Ton should note a hazurdon wate determination in hangequipment
ole Juantes at and which oits. Eft toxicty to out it and gentability que
nubel (74 (335.62)
Section A(4)1 If the o, is test how four or class I then I'm will have to
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an already listed on the NOR
Section Cival Test of 12 h. H. L. C. C. C. L. L. L. L.
Section CLUREN TON should begin kuping newly of all hyperdaw with kept in storage
at the container stresseque (Freity O4) Weste stand here is a school street he misture
Thisten (13) dryon were in storage on this injection (TAC 335.8)
Section E(1) 1 The beginning date of accompletion was not as the 55 sales outsil
downs at any 04. (TAC 335-69(4)(2))
(2) Each contains was not labeted" Hounday Wast". (74 335 69 (a)(3))
·

GENERAL FACILITIES CHECKLIST

Se	ction A - GENERAL SITE INFORMATION	***
l.	Are any solid waste facilities located in the 100-year floodplas	In? NO YES
2.	Describe land use within one mile fuel, Tolustral Transcellaria	c(infat)
3.	Are there any closed or abandoned solid waste facilities?	NO VES
4.	Has proof of deed recordation of all solid waste Land Disposal facilities been provided to TWC?	N/AYES/ NO
	. •	
5 .	Is there any evidence of fires and explosions on leaks and dischingues to the confronces. from solid waste facilities or any other type of facility?	NOYES/
	and major topographic features (Sec ethickment , A, B, +C)	
	+++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT Signed:	APPLICABLE +++
Sec	+++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT	
Sec 1.	+++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT Signed:	APPLICABLE +++
	tion B - PERSONNEL TRAINING fragram shorted April 24,1486. Does the owner/operator maintain a personnel training program?	
1.	+++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT Signed: tion B - PERSONNEL TRAINING fragram should April 24,148C Does the owner/operator maintain a personnel training program? Is the program directed by a person trained in hazardous waste management procedures?	N/AYES_/_NO
1.	tion B - PERSONNEL TRAINING fragram shorted April 24,1486. Does the owner/operator maintain a personnel training program? Is the program directed by a person trained in hazardous waste management procedures? Is the program designed to prepare employees	N/A YES NO N/A YES NO
 2. 3. 	tion B - PERSONNEL TRAINING fragram should April 24,1486. Does the owner/operator maintain a personnel training program? Is the program directed by a person trained in hazardous waste management procedures? Is the program designed to prepare employees to respond effectively to hazardous waste emergencies?	N/A YES NO N/A YES NO N/A YES NO N/A YES NO

^{***} An entry in this column indicates explanation/response is needed. Page 1 of 5 $\,$

sec	LIGH C - FREFAREDRESS AND PREVENTION	•		
1.	Is the facility equipped with: a. Internal communication or alarm system within easy acce b. Communication system to call off-site emergency assista c. Fire, spill control, and decontamination equipment d. Adequate fire-water supply (volume and pressure)		YES / YES / YES /	NO /
2.	Is the above-noted emergency equipment regularly tested? (\mathcal{S}_{l} , \mathcal{L}	-ment)	YES	NO
3.	Is aisle space sufficient to allow unobstructed movement of personnel and equipment?		YES_	NO
4.	Has the owner/operator attempted to familiarize local response authorities with: facility layout, entrances and evacuation routes, hazardous waste properties and hazards, and the work location of facility personnel?	N/A	YES	мо
5.	Has a primary authority been designated in case more than one law enforcement or fire department responds?	N/A	YES	NO
6.	Has the owner/operator attempted to reach agreements with: State emergency response teams, emergency response contractors, and equipment suppliers?	N/A	YES	NO
7.	Has the owner/operator attempted to make arrangements with local hospitals to familiarize them with the hazardous wastes handled and the injuries that could result from: fires, explosions, or releases from the facility?	N/A	YES	NO
8.	If State or local authorities declined to enter into the above-noted agreements, was this documented?	N/A	YES	NO
Sec	tion D - CONTINGENCY PLAN and EMERGENCY PROCEDURES		,	
1.	Is a contingency plan to minimize dangers of accidental release from hazardous waste facilities maintained at the facility?	s	YES	NO
2.	Does the contingency plan contain: a. Actions to be taken in response to emergencies b. Description of agreements with police, fire & hospital off	icials N/A	YES	NO _/
	 Names, addresses & phone numbers of emergency coordinators List, description & location of emergency equipment Evacuation plans, if necessary 	N/A	YES YES YES	NO / NO /
3.	Have copies of the contingency plan been provided to: local police and fire departments, hospitals, and State and local emergency response teams?	N/A ⁻	YES	NO
	+++ STOP & SIGN HERE IF FACILITY QUALIFIES FOR THE 90-DAY STOR	age exe	MPTION	+++

Signed:

Sec	tion E - WASTE ANALYSIS		***
١.	Is a written waste analysis plan maintained at the facility?	YES	NO_
2.	Does the plan include the following:		
	a. Detailed physical and chemical analysis of all haz. wastes	YES_,	NO
	b. Rationale for selection of analytical parameters	YES	NO_
	c. Analytical test methods used	YES	ио
	d. Sampling methods used to obtain representative waste samples	YES	NO
	e. Frequency the initial analysis will be reviewed or repeated (including re-resting when waste streams change)	YES	NO
	f. Waste analyses that generators have agreed to provide N/A	YES	ио 1
3.	For facilities <u>receiving</u> wastes from off-site: Is each incoming waste shipment inspected and, if necessary, analyzed to check it against the manifest? N/A	YES	мо
Sec	tion F - SECURITY	•	
1.	Does the facility provide adequate security to minimize the possibility of unauthorized entry by persons or livestock?	YES	NO
2.	Is security of the active portion of the facility provided through: (circle) (a. 24 Hr surveillance Guards of entrance to Trov facility		
	b. Perimeter barriers and means to control entry bib will along Ton feeling and chain light to with burbant of feeling	YES /	NO
3.	Is a sign with the legend "Danger-Unauthorized Personnel Keep Out" (or an equivalent legend) posted at all entrances and approaches to active portions of the facility?	YES	NO
4.	Is the sign legible from at least 25 feet?	YES	NO

NOTE: The sign must also be written in Spanish in counties bordering the Republic of Mexico.

Sec	tion G - GENERAL INSPECTION REQUIREMENTS	***	
1.	Is a written inspection schedule maintained at the facility? N/A	YES/ NO	
2.	Does the schedule provide for inspection of the following:		
	 a. Monitoring equipment b. Safety and emergency equipment c. Security devices d. Operating and structural equipment 	YES NO A YES NO YES NO NO	
3.	Does the schedule identify the following types of problems to be looked for during the inspection:		
	a. Malfunction and deteriorationb. Operator errorc. Discharge or threat of discharge	YES / NO	
4.	Does owner/operator maintain inspection logs which include:		
	 a. Date and time of inspection b. Name of inspector c. Notation of observation d. Date and nature of repairs and remedial action 	YES NO / YES / NO YES / NO YES / NO	
5.	Have malfunctions or other deficiencies: fragram just stacked no deficances noted in the inspection log been corrected? or mulfacture noted. NA	YES NO	
6.	Are inspection log records maintained for three years?	YES/ NO	
Section H - SPECIAL REQUIREMENTS			
1.	Does the owner/operator take precautions to prevent accidental ignition or reaction of ignitable or reactive wastes? N/A	YES / NO	
2.	Are smoking and open flame confined to designated areas? N/A	YES NO	
3.	Are "No Smoking" signs posted in areas with ignitable or reactive waste	s?	
	N/A	YESNO	

Section I - MANIFEST SYSTEM, RECORDKEEPING and REPORTING		***
1. Does owner/operator comply with manifesting requirements?	N/AYES	мо
2. For wastes received from off-site:		
 a. Is waste that is transported by rail or water accompanied by properly executed shipping papers? b. Have all shipments been consistent with the manifests? c. Are unmanifested wastes reported to TWC? d. Have manifest discrepancies been reconciled with the generator and transporter? 	N/A / YES N/A / YES N/A / YES N/A / YES	
Section J OPERATING RECORD		
1. Is a written operating record maintained at the facility?	N/AYES	NO
2. Does the operating record reflects the following:		
a. Description and quantity of each hazardous waste received and the method and date of treatment, storage or disposal at the facility.	N/A VES	NO
b. Location & quantity of each haz. waste in the facility.	N/AYES	NO /
c. Records and results of waste analyses and trial tests.	N/A / YES	NO
d. Summary reports of all incidents requiring implementation of the Emergency Contingency Plan.	N/A / YES	мо
e. Closure Cost estimates for all facilities.	N/AYES	NO
f. Post-Closure cost estimates for all disposal facilities	N/A YES	NO
Section K - FINANCIAL ASSURANCE		
1. Did preinspection call to Central Office confirm that the facility has submitted current financial assurance documentation?	N/AYES/	NO
2. If Yes, indicate the documents submitted and their respective value	ies:	
Sudden Liability- Amount: \$ per occurance, Non-sudden Liability- Amount: \$ per occurance,	\$ \$	annua l annua l
Closure Assurance- Amount: \$ /23 occ Post-Closure Assurance- Amount: \$		
Corrective Action- Amount: \$		
3. Did Financial Assurance Officer report that documentation is adequated to Some Ralls 4-23 87 (rechide) resignate former of the Some Ralls 4-23 87 (rechide) resignate former of the source of the s	nate? N/AYES	NO

TWC Reg.	No	33373
Checklist		c. lities

CONCENTS SHEET

southerst and of the howevery land till (Facility 01) It iens also noted that the susteest and of the land fill area had been excavated, by trending out the dite, to allow finding water which suffers in the land till to discharge. Ton a currently own towns discount lied consistential with another (and proventh) had a findings from the land till area, is agained in the classes plan. Section B(5) Ton has produced personal training and has an outline of courses to tion enjoyed but has not decemental the type assument of frame, (The 335 112) 40 ceft 265 (6)(3)) Tole title and a weather, ob description are medial for each parties. (The 335-112) 40 (FR 265-16)(1)(2))	scukest and of the land of area had been excavated, by turnburg out the date, to when fording water which surfaces in the land till to directing. The securety mentions described lied consistentian such and to confirm to directing. The securety mentions described lied consistentian such and to confirm the land till active as the surface of the confirmation of the confirmation of the surface of	Section A(5) 1 During this impaction the war noted that the fine was moved from the
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Tot title and a weither to description are much for such partie. (TAE 335.112/40 (FR 265.16(1)(2)) Section Cincol Fichity of (Co. tome Storing Arm) dici not have him extinguishers in the area Weith stores here are sentable. (TPE 335.111/40 (FR 265.32(c))	Tols titles and a worther job description are muchel for such partie. (TAC 335.112/40 CFR 265.16 (1)(2)) Section Circle Facility of (Containe Storing from) dici not have him extinguishes in The area Worth storic here are sentable. (TPC 335.111/40 CFC 265.32(c))	to transcription but his not decomment the type assument of frame The 335
Tot title and a weither to description are much for such partie. (TAE 335.112/40 (FR 265.16(1)(2)) Section Cincol Fichity of (Co. tome Storing Arm) dici not have him extinguishers in the area Weith stores here are sentable. (TPE 335.111/40 (FR 265.32(c))	Tols titles and a worther job description are muchel for such partie. (TAC 335.112/40 CFR 265.16 (1)(2)) Section Circle Facility of (Containe Storing from) dici not have him extinguishes in The area Worth storic here are sentable. (TPC 335.111/40 CFC 265.32(c))	112/40 FF 265-16 (d)(3))
Section Cincol Facility of (Cantonin Storing Arm) dici not have his extinguishers in The arm North storic here are ignitable (TPC 335-111/41) (TPC 265.32(c))	Section Cincell Facility of (Container Storing from) dict not have his extinguishers in The area Write storic here are ignitable (TPC 335-11)/40 (FC 265.32(c))	Total titles and a weather ist description are much for such parties. (IA 335.112/40
Section Civical Facility 04 (Ca. town Storye Arm) Aci not have his extinguishers in The area Worth stores here are sometish. (TPC 335-112/40 CFC 265. 32(c))	Section Cincol Facility 04 (Cartain Storing Arm) dici not have him extinguishers in The area Wester storic here are sentable (TPC 335-111/40 CFC 265. 32(c))	(FR 265.16 (1)(2))
		Section Civical Facility 04 (Continue Storice Arm) dici not have him extinguishes in
		the area Walte stores here are contable (TPC 335 111/40 CFC 265. 32(c))
Section C(2) 1 Sec comment C(1)(c), above. N. fire extinguisher in area yet.	Section C(2) 1 Sec comment C(1)(c), above. N. Fire subsquisher in greaget.	
Section C(2) 1 Sec comment C(1)(c), above. No fire extinguisher in area yet.	Section C(2) 1 Sec comment C(1)(c), about. No fire subsquisher in greater.	
Section C(2) 1 Sec comment C(1)(c), above. No fire extinguisher in area yet.	Section C(2) 1 Sic community C(1)(c), about. N. Fire polygoushys in assayet.	
Section C(2) 1 Sec economy C(1)(c), above. No. fore extinguishes in accompet.	Section C(2) 1 Sec comment C(1)(c), above. No fire extinguisher in accomplet.	
	The state of the s	Section Ci21 / Secret + CC186 \ along M. Line and million area +
		- Comment Con about the formation in greater

TWC Reg. No	33373
Checklist	Facilitie

COPPLENTS SHEET

Section D I TIN does not have a contacting plan. Ton true to we Love Ston Steeks
custingency flow us to own TON Thouse have a continuing flow to this facility (Ton
(TAL 335/12/40 CFR 26550)
Section F 1 A . d. d
Section E 1 A with wite analys plan is maded for this field of (JAC 335.112/40 CFR 265/3).
CFX 265 /31.
Section F(1) 1 Su comment A (5). Top also has contractors welling at the wagehouse
(TON) - With the so-theast fence being down and rough keeding to the land till (CI), I
down not provide minute post bit of ungutherized entry (TAL 335, 112/40 CER
265.14(3).
Section Flank Till Still Comment of the section of the section
Section Flary The hazarden landfill (Facility c) ded not have sign posted with the legend "Danger- House Ker, and Personal Kieg Out" (TAC 335-112/40 (FR 265.14(c)). The
1196 Danger- Hount Key and Pleasant Kieg Out (1/1 33.112/40 (72 263.14(c)). The
facility had sign stating "Anthornal Puranal Coly" by t did not alert personal
entiring the area that danger was parable.
Signs were light but not winder correctly

TWC Reg. No	33373
Checklist	Fac. 1, 4,4

COMMENTS SHEET

Section G(2)(b) Ton will have to need by its yearest inspection schedule to relach inspection of
file extinguisher to be intalled at facility af (Carting Storge Free)
(TAK 335/12/ 40 CFR 265-15 (6X1))
Section (f(4)(a) Inspection logs should include the date and time it injection.
Section G(4)(a) Inspection loss should include the date and him of inspection. (IAC 335-112/40 CFR 265-15 (d))
· · · · · · · · · · · · · · · · · · ·
Section Man 1 " D. S. L. "
Section # (3) 1" No Smeking" signs are needed at facility 04. ("AC 335-112/ 40 (FR 265-17(a))
40 (FK 265-11(q))
Section J /(1)(1) For last to mantana written agreeting record for facility 01 and 04.
(TAC 335-112 /40 CFL 265.73(4)(2))
,
Section K / Ton day not how solds a day - swide light in Eur the
Section KI TON day not have suddly and non-sucide lightly for the
Section K 1 Ton does not have suddly and non-suddly lightly for the Iguilfull (Facility O). According to Some Ralls, Francial Affice Tour Tan
submitted a little of codet for closure of # 123 ox
submitted a little of codet for closure of # 123 ox
Section KI Tow day not how saddle and non-suider lightly for the Iguilfill (Facility OI). According to Some Ralls, Francial Affice Two Town Submitted a little of cool of for closure of # 123 ox (TAC 335-112 [40 (FR 261 Subject H))
submitted a little of codet for closure of \$ /23 ox

	TWC Solid Waste Inpection Report CONTAINER STORAGE AREA CHECKLIST	Reg. Facility No. 04 Act A Class of Wastes (
١.	Are containers in good condition?	*** YES <u>√</u> NO
2.	Are the containers compatible with the wastes being stored?	YES V NO
3.	Are containers kept closed and stored in a safe manner?	YES/ NO
1.	Are containers inspected weekly for leakage and deterioration	? YES NO
ö.	Are containers holding ignitable or reactive wastes kept at least 15 meters (50 ft) from the facility's property line?	N/AYES/NO
5.	Are containers holding incompatible wastes separated by a physical barrier or sufficient distance?	N/A YES NO
7.	Does the storage area have containment protection?	YES NO
3.	Describe the Container Storage Area using comments and/or pho Container are stored under a metal building on woodin pullets Container stored in this area have not been inspected on any frequency (

^{***} An entry in this column indicates explanation/response is needed.

TWC Solid Waste Inspection Report

LANDFILLS CHECKLIST

TWC Reg. No. 33313
Reg. Facility No. <u>O/</u>
Invetor
Class of Wastes(#)

Type of Wastes: Lube wester threed lube companie solvents	
Type of Liner: Native Soil	
Is there a Leachate collection and removal system? YesNo	
A. GENERAL OPERATING REQUIREMENTS	***
1. Does the active part of landfill have an adequate run-on control system?	YESNO
2. Does the landfill have an adequate run-off management system? (Su Commat)	YES / NO
a. Is the run-off analyzed to determine if it is hazardous?	YES / NO
b. If it is hazardous, how is it managed?	· · ·
c. Is collected run-off discharged to surface waters? YES	NU 🟒
(1). If Yes, list TWC-WQ and EPA-NPDES Permit No(s):	
3. Is the landfill managed so that wind dispersal is controlled?	YES NO
B. SURVEYING AND RECORD KEEPING	
1. Is the following information maintained in the operating record:	•
a. On a map, the exact location, dimensions, and depth of each cell with respect to surveyed bench marks?	YES NO
b. The contents of each cell and approximate location of each haz. waste type within each cell?	YES NO
C. SPECIAL REQUIREMENTS	
1. If ignitable or reactive waste are placed in the landfill:	
a. Are they rendered non-ignitable or non-reactive before or immediately after placement in the landfill? N/A	YES NO
b. Describe or attach copy of treatment:	
2. If incompatible wastes are placed in the same landfill: Are they handled so as to prevent violent reactions, toxic or flammable gases, damage to the facility, or threat to humans or the environment?	YESNO

3. If free liquid wastes (non-containerized) are placed in the landfill:	***				
Are the wastes treated so that no free liquids are present? N/A / YES	мо				
4. If a container holding free liquid is placed in the landfill:					
Does facility comply with requirements of 40CFR 265.314(b)? N/A / YES (i.e.: Liquid is absorbed or solidified; container is very small; container is a battery, capacitor, etc.; container is a lab pack)	NO				
5. If empty containers are placed in the landfill:					
Are they crushed or shredded prior to burial? N/A YES	NO				
D. FOR CLOSED LANDFILLS OR LANDFILL CELLS					
1. Is there evidence of site instability (settling, erosion, etc.)?	YES				
2. Is there evidence of improper maintenance or inadequate drainage? NO	YES				
E. GROUNDWATER MONITORING					
1. Does the landfill have a RCRA groundwater monitoring system? (Use GWM checklist if applicable) Mw.w: Tw-1, Tw-2, Tw-3, - Tw-4	NO				
F. HSWA REQUIREMENTS					
1. Is the landfill a "new unit"*, August 1985 date of last with placed into landfill (01) a replacement of an existing unit,					
or a lateral expansion of an existing unit? YES NO					
If Yes:	•				
a. Has landfill received haz. wastes since May 1985? N/A YES / NO					
b. Does landfill have two or more liners and a leachate collection system above and between such liners? N/A YES NO /					
Comments:) 5 acre fill agent The funció acra is approximately 30 acres:					
A clover plan has been submitted and approved for this fighty					
A(2) / Fac. 1ty as how a spring which surfaces with the landfill new the south and Good thechouse	<u> + "B")</u>				
Tow has been surfling sureft from the budfill to dissolved led (uniforesth) on mister the the					
land till discharges. This sampling is requested by the closure plan.					
* A landfill that first received hazardous wastes after Nov. 8, 1984.	/86				

TWC Solid Waste Inspection Report

TWC Reg. No. 33373 CLOSURE-in-PROGRESS CHECKLIST Reg. Facility No. 01 Tractue YES ___ NO___ 1. Is the facility component being closed a RCRA unit? Type of closure: Full-Facility Closure / Partial Closure____ N/A YES / NO___ 3. Has closure plan received TWC approval or final modification? Date of approval: 12-5 86 Is this the last on-site facility to be closed N/A YES / NO which requires RCRA groundwater monitoring? 5. Has an approved **public notice** of closure been published? N/A YES / NO__ Date published: 10 15.86 Is a public hearing required? Date of hearing: Has on-site closure work started? Date work initiated: Auch) Gumuells intolled, some pre-closure Gum has occurred. 8. Is closure work proceeding according to N/A__ YES__ NO__ the work schedule in the approved closure plan? 9. Have 180 days elapsed since TWC approval of the closure plan? N/A YES NO__ a. If Yes. N/A___YES__/_NO___ Has TWC approved an extension period? 10. Was District Office notified of sampling event when complete removal (clean closure) N/A YES NO of a Land Disposal facility was to have been accomplished? 11. Were TWC samples taken to verify completion of closure? NO___ ΝΑ. NOTE: List chain-of-custody sample tag numbers in comments. 12. Is the closure work completed? Date of completion: N/A YES 13. Has the closure certification been submitted to TWC? Attach copy or explain. Date of certification:

^{***} An entry in this column indicates explanation/response is needed.

Page 1 of 1

TWC Solid Waste Inspection Repor	POT	Кe	pection	te	Was	lid	So	TWC
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CLOSURE & POST-CLOSURE CHECKLIST

TWC Reg. No. 33373 10.16.11(C1) Tracked

Section A	A -	CLOSURE	PLAN	- Appoint	ь.	TWC =~	12.5-50

1.	Circle	hazardous	waste	facilities	subject	to	RCRA	CLOSURE:

1.	Circle hazardous waste facilities subject to RCRA CLOSURE:		
	CLOSURE: C T SI WP LT (LF) I TT TR WDW	0	

2.	Does the facility have a written closure plan?	YES	NO
3.	Does the closure plan address <u>all</u> hazardous waste facilities?	YES V	NO
4.	Does the closure plan include:		
	a. A description of how and when the facility will be: (1) Partially Closed- (2) Finally Closed-	YES Z	NO
	b. An up-to-date estimate of the maximum inventory of wastes in storage and treatment at any time during the life of the facility?	YES	NO
	c. An estimate of the expected year of closure ? Year: <u>Secomment</u>	YES	NO
5.	Does the plan include a schedule for final closure? Does the schedule include: a. Time estimates	YES	NO

for each phase of closure for each area? YES ./ NO___ YES / NO___ b. Total time estimate for closure?

6. Are the following Steps to Close included in the plan:

a.	Removal of wastes	N/A	YES 🖊	NO
ъ.	Treatment of wastes	N/A /	YES	NO
C.	Disposal of wastes	N/A	YES	NO
d.	Cap or final cover	N/A	YES	NO
e.	Decontamination			
	of equipment & structures		YES 🏑	NO
f.	Closure certification		YES 7	NO

7. Has the closure plan been amended as necessary to reflect changes in facility operations or design?

Section B - POST-CLOSURE PLAN

Circle hazardous waste facilities subject to RCRA POST-CLOSURE.

		POST-CLOSURE: SI WP LT LF 0		***	
1.	Does	the facility have a written post-closure plan? N/A	YES	NO	N
2.	Does	the plan address all RCRA Land Disposal facilities?	YES	NO	
3.	Does	the plan provide for 30 years of post-closure care?	YES	ио	
4.	Does	the post-closure plan include:			
	a.	A description of planned groundwater monitoring activities and	frequency YES	NO	
	b.	A description of planned maintenance activites and frequencies to ensure the following:	₹	-	
		(1) Integrity final cover or other containment(2) Proper functioning	YES	NO	
		of groundwater monitoring equipment	YES	NO	
		of leachate collection equipment N/A (4) Proper functioning	YES	мо	1
		of gas collection equipment N/A	YES	NO	
	c.	Name, address and phone number of facility contact person for the post-closure period?	YES	NO	
	d.	Requirement for notice to local land authority?	YES	NO	
	e.	Requirement for notice in deed to property of haz. waste disposal and future land use restrictions?	YES	мо	
5.	Has t	the plan been amended as necessary during the operating life ne facility to reflect changes in operation or design? N/A	YES	NO	
			 		

Section C - CLOSURE and Post-CLOSURE COST ESTIMATES

CLOSURE COSTS:		***
1. Is there a written closure cost estimate? \$	YES	NO
2. Is the closure cost estimate adequate and modified as necessary?	YES	мо
POST-CLOSURE COSTS:		
3. Is there a written post-closure cost estimate? N/A	YES	NO
4. Is the annual estimate multiplied by 30 to cover the entire post-closure care period?	YES	NO
5. Is the post-closure cost estimate adequate and modified as necessa (Incl. labor, notification & deed recordation) N/A	ry? YES	NO
COMMENTS:		المديد
Ton's closure plan was approved 12.5-86 by Two The plan is evith medifications (See attachment "D").	ve affi	5860
		·
		·

TWC Reg. No. 33323
Checklist Chias Soit Chias

COMMENTS SHEET

Section A(4)(6) 1 The closure plan fails to estimate the amount of writes stored in
fac. 17, 01 before it was deemed martin (TAC 335-112/4/192265, 112/4/21)
Section A(4)(c)1 As noted in the 12-5-86 matified clasure flow clasure allows
2) muster from Two issuance of aprint he for Stor Steel Co and Retail Inc.
2) muster from Two sevence of aprint for for Stor Steel Co and Retail Tree. Junt fill (Seemet No. 140-50087) (Su attadement "D")
Section /
Section/
,
•

Number of

Wells

Monitoring

Status

· TWC Solid Waste Inspection Report

GROUND WATER MONITORING CHECKLISTS

Activity

Status

1. GROUND WATER MONITORING STATUS: Complete the table for each Waste Management Area (WMA):

WMA

Description

		<u> </u>					
	1	Leadfill (Facility CI)	Tagetine	1st 4c	UID	3	
	2	(U D		
					 		
	3				U D		
	4				ם ט		
	Give date of approval for waivers, alternate plan, or assessment plan,						
	as ap	pplicable: Alternate flan 12	-5-54				
	2. Provide a diagram locating each monitoring well and waste site(s). Sec a Hook. List depths, diameter and completion data on each well not included A, B, C, - on the previous inspection report.						
3.	3. Has the following been installed in the uppermost aquifer around each Waste Management Area:						
		At least one hydraulically upgradie At least three hydraulically downgr			YES	NO /	
	c. d.	Indicate WMA(s) that that are not of Describe possible problems on Comme	compliant: <u>Sc</u> ents Sheet.	const E30	1-6)+	7]	
4.		he WMA includes multiple waste mana _l lities, is each facility adequately		N/A	YES	NO	
5.	Does	the facility have a GW Sampling and oes it adequately address:	d Analysis Plan	1?	YES	NO	
		a. Sample collection proced	iures		YES 🗸	NO	
		b. Sample preservation and			YES	NO	
		c. Analytical procedures			YES		
		d. Chain of custody procedu	ıres		YES	NO	
. 6.	Does	the facility have an adequate			,		
		uality Assessment Plan Outline?			YES	NO	
		-					

NOTE: Complete the "GW Sampling Procedures Checklist", when observing well sampling procedures or co-sampling monitor wells at the facility.

7. If the company is performing an alternate groundwater monitoring

program or a partial waiver monitoring program,

is an approved Sampling and Analysis Plan followed?

YES

8.	Have	records been kept of:		***	
	a.	Analyses for ground water parameters?	YES	NO	
	b•	Calculations of means and variances? sampling if the said See the heart "0"	KES	NO	,N. 4
	c.	Water surface elevations taken at each well sampling event?	YES	NO	
	d•	Calculations of significant differences? 54 8(b) N/A	YES	NO	
	е.	Analyses of duplicate samples (only will water church Cown) for contamination confirmation? here been desc.	YES	NO	
	f•	Analyses of samples taken as a result of implementing the Ground Water Quality Assessment Plan?	YES	NO	
	g•	Results of Ground Water Quality Assessment Plan? N/A	YES	NO	
•		(1). Rates of Migration?	YES	NO	
	ř	(2). Concentration of hazardous waste and/or constituents thereof?	YES	NO	
	: -	(3). Analyses of quarterly ground water samples?	YES	NO	
	h.	Copies of the annual reports (Well sampling not performed yet) of the groundwater monitoring program?	YES	NO	م بر
			•		
9.	Are on t	self-reporting data being submitted (Sectionary) he appropriate TWC forms?	YES	NO	N.,
+!	OTE:	Complete remaining checklists as applicable to each Waste Man	agement	Area+	
Con	ments	:			
	 .				
	 -				
					

TWC	Reg.	No	<u> 3 3</u>	<u> </u>
			-	

FIRST YKAR BACKGROUND SAMPLING		
Waste Management Area(s)		
l. Are all samples analyzed for:		***
a. EPA Drinking Water Standards?	YES	NO /
b. Ground water quality parameters?	YES	NO
c. Contamination indicator parameters?	YES	NO
2. Are 4 replicate measurements of contamination indicator parameters made for each well sample?	YES	NO
3. Are ground water surface elevations determined at each well sampling event?	YES	NO
4. Briefly explain why facility is performing first-year sampling Town talled the four (4) monitoring well around the haz	cison w	ek.
lastill (Facility OI) in August 1886 The facility is own	1. des	ucc
bosed on her Stee Steel Co and hetre Ice whomas a frient t		
/a.d.f.11.		
		
		,
	 	
		

TWC	Reg.	No. 33313
Chec	klist	GWM

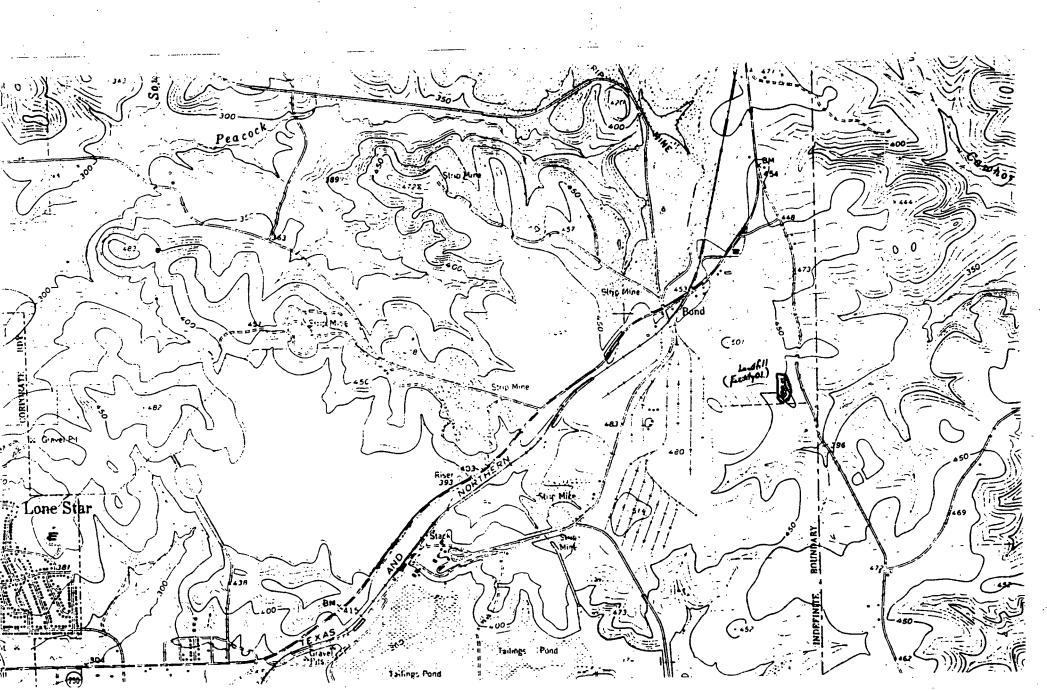
COMMENTS SHEET

Section 1 1 Townstalled for (4) grand water mentury well (MW) dury the week of Angest 11-13,1986
Then wells are referred to as TN-1, TN-2, TN-3, +TN-4. The four (4) monter-qually were into the via the
Agreed Order (8-13-86) between TON and the TILK. The agreed order also asked for the
submittel at a clasure flan for the lastill (c) and forment assurance.
Section 3(a+b) 1 ToN to Jate has perference monthly montering well writer level ekuntions as TW-1, TW-2, TW-3,
Till 4 and the fee standing we to hard in the landfill. Tow has also performed fit specific conductivity and
dissolve less totaget sur-off from the landfill (enforce), on makes that writers discharge Although, Ton
busges from mostly water thus, they have not designated which well is up smilest or which well one dans
gradient. There welle were mantorial (wetveloutions) for the first time in December 1996. (TAC 335.112,
40 CFR 265.91)
Section 7 1 Top his net performed ground water sampling of monterny wells no. TN-1, TN-2,
TN-7, and TN-4 as stated by 32 page 3-3, of the approved classic flow (12-5-86). (Su
attachment "D"). Tan has call performed water well elections on the face (4) montering well.
The flan his been approved, but not followed (TOC 335-116 (0))
Section 8 / Succember #7, about. Succember / nut page
Section 9 1 Sie attachment "D". Data will be sub mitted on TWI forms of the wester mound
and quarterly sempling starts. No mantering well sampling has taken place to date.

TWC	Reg.	No		33)3	
Chec	cklist	:_F	1514	Vice	

COMMENTS SHEET

Section 1 / Although, Tolli sampling flow was appared in the desur flow, Toll has not followed the
givend water mantoring plan they submitted for the face (4) mention wells (See connect 7 on the previous page).
His of current that Tow has no place to menter the feel (4) manternguelle be for a of the weste excenstion
of the land fill for ElA driking water standards, grand withe good to privaters, costan nation parameter, and the
up specient/dam-godient designations have not been much on the wells. Top nos takes fin (5) months
to divitive a cond with hall which seen inactionally long (Such down til No) It has been atta that Total disposed
of three labe west containing lead and solvente in the landfill. During this infliction sanger were taken from
Section I menturne wills no. TN-3 and TN-4 (See attachment "B" for well locations).
Sungh HM 10546 (B. C. C. la) and Sw 10800 (acid the mulus WA) were taken from TW-3
which sample HAM 10547 (Ph. C. C. B.) and SW 10879 (acid chase matrice, W. E.) were
takes from 72V-4
Section 2 1 Ten's closur plan itsted replicates would not be perficient during the
cotiel sampling framen, humany the meditical charge flow among mente See attentionent "O"
of the insets amost door call for replicate and statistics.
Section/



Texas Water Commission

INTEROFFICE MEMORANDUM

TO

C.

Russ Kimble, Chief, Reports & Management Section, DATE: 4-27-87

Hazardous & Solid Waste Division

THRUX

Luis E. Campos, Hazardous & Solid Waste Coordinator,

Field Operations Division

ATTN:

MICHAEL MOON. Enforcement Coordinator

FROM

Kevin Phillips, District 5

SUBJECT:

T & N Lone Star Warehouse Co., Registration No. 33373

On March 30, 1987, I conducted an industrial solid waste inspection of the subject facility. I was accompanied on the inspection by Mr. Steve Boyd of T & N Lone Star Warehouse Co. (T&N) and Mr. Mark Snyder of Lone Star Steel Co.

T&N is a bonded public warehouse which leases space to oilfield pipe manufacturers and sales companies, oil companies, and drilling companies. Hazardous wastes which entered facility 01 (Landfill) were generated by pipe inspection companies as a result of cleaning lead-based pipe threading compounds from the pipe's threads with-solvent.

T&N was submitted for enforcement on October 8, 1985 by District 5. On August 13, 1986 the Texas Water Commission issued an Agreed Order to T&N in order to resolve violations of the Industrial Solid Waste Rules. In the Agreed Order issued, T&N was to submit a closure plan which addressed ground water monitoring and demonstrate financial assurance for the closure of the waste disposal facility 01 (Landfill).

During the industrial solid waste inspection conducted on 3-30-87, T&N was found to be in violation of the Agreed Order which required ground water monitoring and financial assurance. Since these violations are deficient of the Agreed Order and are Class I violations, the following information is being submitted for review and enforcement by Central Office.

The following violations are interpreted as Class I violations by District 5:

	violation
1.	Failure to provide adequate
	financial assurance for the
	closure of the landfill.

Data Source CEI Investigation Report 3-30-87 Permit or Other Requirement TAC 335.112/40 CFR 265, Subpart H. Agreed Order August 13, 1986

2. Failure to monitor ground water at the landfill as required by the approved closure plan.

Agreed Order August 13, 1986; TAC 335.116(a)

 Failure to determine which monitoring wells are adequate upgradient and downgradient wells. TAC 335.116(b)/40 CFR 265.91

10M - TaN Lone Star Warehouse Co. April 27, 1987 Page 2

The following violations are interpreted as Class II violations by District 5:

	<u>Violation</u>	Data Source	Permit or Other Requirement
i.	Failure to identify the correct mailing address and contact person on the NOR.	CEI Investigatio Report 3-30-87	n TAC 335.6
2.	Failure to make a hazardous waste determination on heavy equipment oils, locomotive oils, and vehicle	oils.	TAC 335.62
3.	Failure to label hazardous waste drums with the words "Hazardous Was	te."	TAC 335.69(a)(3)
4.	Failure to have the date of accumulation on hazardous waste drums in storage.	II	TAC 335.69(a)(2)
5.	Failure to document the type and amount of each personnel training course.	u	TAC 335.112/40 CFR 265.16(d)(3)
6.	Failure to document job titles and job descriptions for each person	u	TAC 335.112/40 CFR 265.16(d)(2)
7 .	Failure to have fire extinguishers in the container storage area which stores flammable waste.	U	TAC 335.112/40 CFR 265.32(c)
8.	T&N should have a contingency plan for this facility, not a contingency plan labeled Lone Star Steel.	" Y	TAC 335.112/40 CFR 265.50
9.	Failure to have a written waste analysis plan.	н	TAC 335.112/40 CFR 265.13
0.	Failure to provide adequate securit (fencing) around the hazardous wast landfill.		TAC 335.112/40 CFR 265.14(a)
1.	Failure to post signs around the hazardous waste landfill that state "Danger-Unauthorized Personnel Keep		TAC 335.112/40 CFR 265.14(c)

T&N Lone Star Warehouse Co. 27, 1987

<u>Violation</u>	Data Source	Permit or Other Requirement
eneral inspection schedule be modified to include tion of fire equipment installed at container e area.	CEI Investigation Report 3-30-87	TAC 335.112/40 CFR 265.15(b)(1)
tion logs should include the nd time of inspections.	tt	TAC 335.112/40 CFR 265.15(d)
e to post "No Smoking" signs container storage area.	u	TAC 335.112/40 CFR 265.17(a)
e to maintain a written ing record of the locations punts of hazardous waste ed of and stored for facility 04.		TAC 335.112/40 CFR 265.73(a)(2)
to make weekly inspections te stored at facility 04 ner storage area).	II	TAC 335.112/40 CFR 265.174
of the closure plan to te the amount of waste d of at facility Ol (landfill	"	TAC 335.112/40 CFR 265.112(a)(2)
to keep records of industria aste treatment, storage, and l activities.	" "	TAC 335.9

John W. Witherspoon, Manager

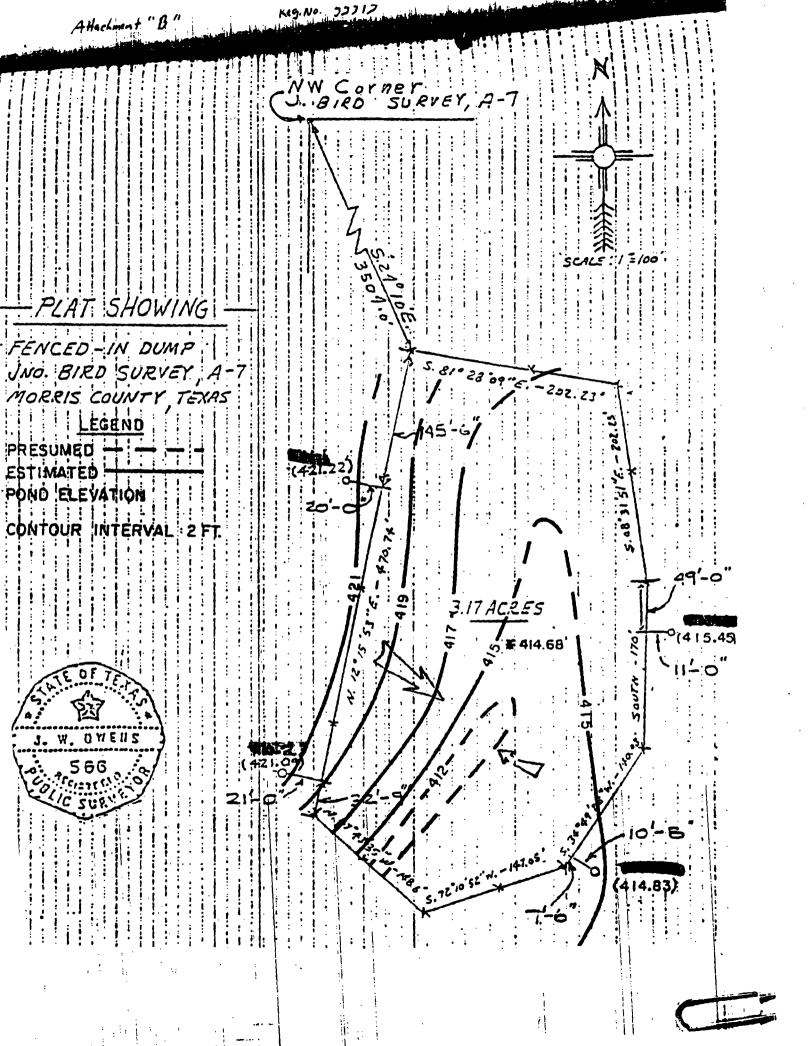


TABLE 1
Summary of Well Construction Details and Initial Water Level Data

Well

	TN-1	TN-2	TN-3	TN-4
Top of casing (TOC)	435.94	436.16	430.66	431.91
Ground elevation	433.11	433.29	427.69	429.21
Bottom of well	410.3	403.6	403.1	400.2
Screened interval	413-418	406.6-416.6	406.1-411.1	403.2-413.2
Depth to water (from TOC) on 8/22/86	14.72	15.07	15.83	16.46
Water elevation 8/22/86	421.22	421.09	414.83	415.45
Elevation of on-sit spring-fed pond	e		414.68	
Reference Benchmark	; [437.71	

All measurements in feet. All elevations in feet, msl.

1 Hackment " D" Reg. No. 33373

TEXAS WATER-COMMISSION

Paul Hopkins, Chairman
Ralph Roming, Commissioner
John O. Houchins, Commissioner

CE VE LAT

Larry R. Soward, Executive Director

Mary Ann Heiner, Chief Clerk
James K. Rourke, Jr., General Counsel

December 5, DISTRICT 5

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. J. D. Shiver, Executive Vice President, Operations T & N Lone Star Warehouse Company P.O. Box 187 Lone Star, Texas 75668

Re: T & N Lone Star Warehouse Company Solid Waste Registration No. 33373 Closure of Hazardous Waste Facility

Dear Mr. Shiver:

We have reviewed your letter dated October 30, 1986, which transmitted the Publisher's Affidavit and a clipping of the published Notice of Closure of your hazardous waste disposal facility (Facility Unit No. 01 on your Notice of Registration). We have also reviewed your closure plan for the subject facility.

This letter constitutes approval by the Executive Director of the subject hazardous waste facility closure plan, as modified below. Our evaluation indicates that the closure activities described in the plan should provide reasonable assurance of effective industrial solid waste management, subject to the submittal of certifications and the modifications listed below.

This closure plan is modified by the following provisions:

- 1. The accelerated ground water monitoring program which is to be conducted after removal of hazardous waste is completed (item 3.2.2. in the closure plan) shall be conducted in accordance with the procedures outlined in Enclosure 1.
- 2. It is noted that the schedule for closure allows 27 months for TWC issuance a permit for Lone Star Steel's landfill (Permit No. HW-50087). A revised schedule for closure shall be submitted to the Executive Director for review and approval within 30 days of issuance of the subject permit.

Mr. J. D. Sh. ar Page 2 December 5, 1986

3. When measuring pH of ground water samples (Appendix B - Sampling and Analysis Plan), the pH meter shall be calibrated prior to analyzing samples from each well using buffer solutions having pH values greater than and less than that of the sample being analyzed.

Upon completion of closure activities, certification shall be submitted by the owner or operator of the facility and by an independent Registered Professional Engineer that the hazardous waste management facility has been closed in accordance with the approved closure plan. Also, notification that the facility has been closed shall be made in accordance with the provisions of 31 Texas Administrative Code Section 335.6.

Should you have any questions regarding this matter, please contact Michael Moore of the Hazardous and Solid Waste Enforcement Section at 512/463-8425.

Sincerely,

Bryan W. Dixon, P.E., Director

Hazardous and Solid Waste Division

MM/mm

cc: TWC District 5 Office

T&N Lone Star Warehouse Company - Reg. No. 33373 "Accelerated" Ground Water Monitoring Program

Ground water monitoring wells at the landfill (Facility No. 01) shall be sampled quarterly for one year following the initial certification of closure (Step 12 in Table 4-2). The first sampling event shall take place within 30 days of certification, and each subsequent sampling event shall take place at 90-day intervals (±10 days) unless otherwise approved by the Executive Director. Sampling and analysis shall be conducted according to item 3.2.2. in the closure plan, and data for lead concentrations shall be statistically analyzed as follows:

- 1. First Quarter Collect 4 individual replicate samples from each well and analyze for dissolved lead using the procedure described in Method 304 of Standard Methods for the Examination of Water and Wastewater, 16th edition (APHA, AWWA, WPCF). A minimum detection limit of 5 µg/L shall be obtained using this method. For statistical evaluations, 5 µg/L shall be used for any values which are less than the minimum detection limit. Determine the arithmetic means and variances for lead concentrations in each well.
- 2. Second and Third Quarters Collect and analyze samples following the same procedures used during the first quarter. Determine arithmetic means and variances for dissolved lead for each well after each quarterly sampling event; these statistics shall be recalculated each quarter, using all replicate lead concentrations from the current and all previous quarters as individual samples (ie: mean and variance shall be calculated for each well using 8 samples the second quarter and 12 samples the third quarter).
- 3. Fourth Quarter Collect and analyze samples following the same procedures used during the first quarter. When laboratory results are available for fourth quarter samples, means and variances for lead concentrations shall be calculated for each well as during the previous quarters, and the background mean and variance from the upgradient well shall be compared with means and variances for downgradient wells using the Student's t-test at the 0.05 level of significance.

Report the ground water monitoring data as required above for each monitor well on the enclosed forms within 20 days of completion of each quarterly laboratory analysis. Information shall be submitted for the highlighted sections of the example in Enclosure 2.



QUARTERLY GROUND WATER MONITORING REPORT FOR HAZARDOUS WASTE FACILITIES (INTERIM PERMIT STATUS)

CPAID NO THE TELL

Company April No

						IS WASTE FACILITIES PERMIT STATUS)	•	
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Attachment "E 7 Reg. No. 33373

Closure Plan for Site #01 Inactive Waste Landfill

T&N Lone Star Warehouse Company Lone Star, Texas

September 1986

EPA ID No. TXD981158249 TX ID No. 33373

Each well was developed until the well water pll and conductivity stabilized and the water cleared. Following development, the well was bailed or pumped until no less than one volume (if bailed till dry) or three well volumes were removed (if the well recharged fast enough).

All well locations have been surveyed to establish horizontal control, top-of-casing (TOC) and ground surface elevations with respect to an established plant datum or mean sea level. Initial ground water level data were collected in order to estimate the hydraulic gradient and direction of ground water flow. The information gathered during this stage of the hydrogeological investigation will be used to prepare a preliminary report for submittal to IMC.

The locations of the initial four monitoring wells were chosen as the most likely positions to yield one upgradient and three downgradient wells. If, upon examination of the data gathered from the initial borings and wells, it is determined that this is not the case, it will be necessary to drill additional borings for completion as wells. A plan showing the proposed location of the additional well(s) will be submitted to TWC for approval prior to initiation of drilling. Following approval, the District 5 office of TWC will be notified at least 10 days prior to the start of drilling. Any additional wells will be completed using the same procedures as the first wells.

3.2 Groundwater Monitoring Program

3.2.1 Initial Sampling and Analysis Program

Following installation and development of the wells, a routine sampling and analysis program will be initiated. The District 5 office of TWC will be notified by telephone at least ten days prior to each sampling event. This will allow the TWC the opportunity to observe sampling techniques and/or split samples. Procedures will follow those outlined in the "Sampling and Analysis Plan" (Appendix B).

Sampling will be done quarterly. The water elevation will be measured on each well before it is purged. To purge, three casing volumes of water will be removed, unless the well can be pumped or bailed to dryness. If recovery of wells which are bailed to dryness is sufficient, wells will be evacuated to dryness again. If necessary, the wells will be allowed to recover before the samples are collected.

Each—well will be analyzed for pH, specific conductance, and lead. The results of the analysis will be reported to TWC within 20 days of receipt of laboratory results. During this initial sampling program, no replicates will be taken and no statistics performed. This program will remain in effect until all wastes have been removed from the site.

3.2.2. <u>Sampling and Analysis for Clean Closure</u> Certification

After excavation of waste has been completed, the sampling and analysis program needed to certify clean closure will begin. Water elevation measurement, purging, and sampling techniques will be the same as in the initial program. The District 5 office of TWC will be notified by telephone at least ten days prior to each sampling event. This will allow the IWC the opportunity to observe sampling techniques and/or split samples. Quadruplicate samples will be taken quarterly for a period of one year. One sample each quarter will be analyzed for pH and specific conductance; lead will be analyzed in quadruplicate. Within 20 days of receipt of laboratory results following each sampling event, the results will be submitted to the TWC on forms provided by the agency After four sampling events have for that purpose. been completed, the Student's t-test statistical analysis will be performed on the lead analytical results, using the method for accelerated groundwater monitoring which is to be provided by the TWC.

3.2.3' Sampling and Analysis Plan

The "Sampling and Analysis Plan" can be found in Appendix B.

3.3 Surface Water Monitoring Program

There is a surface water discharge (a spring) in the southern part of the landfill area. This discharge will be monitored monthly during those months in which there is a discharge leaving the landfill boundary. The approximate location is shown in Figure 3-1. Samples will be collected grab and analyzed for lead. Results of each month's analysis will be reported to the INC by the twenty-fifth of each succeeding month.

Hacknet "F" Reg. No. 33373

TEXAS WATER COMMISSION

Paul Hopkins, Chairman Ralph Roming, Commissioner John O. Houchins, Commissioner



Mary Anny Henry Chief Christonsel

CERTIFIED MAIL

January 30, 1987

Mr. Martin J. Rich Chief Financial Officer T & N Industries, Incorporated P.O. Box 38565 Dallas, Texas 75238-0565

Re: RCRA Financial Assurance T & N Industries, SW 33373

Dear Mr. Rich:

This agency has received the financial test documents submitted January 20, 1987 providing closure cost assurance for the above referenced facility.

Our understanding is that T & N Lone Star Warehouse is a wholly owned subsidiary of Lone Star Steel. Year-end financial statements for 1985 were provided to support this financial test instead of the required 1986 figures, and it was unclear whether the figures presented were T & N Lone Star Warehouse or Lone Star Steel figures.

In order for T & N to utilize the financial test, figures must be audited independently from Lone Star Steel. In the event that an independent audit cannot be performed, financial assurance for T & N must be provided by Lone Star Steel through the corporate guarantee as specified in 40 CFR 265.143. The Texas Water Commission will expect a revised submittal using 1986 figures and providing the required Auditor's Annual Report and the Auditor's Special Report no later than 3/31/87.

If you require any assistance, please contact Ms. Sonia Ralls of our Hazardous and Solid Waste Division at 512/463-7764.

Sincerely,

Russell S. Kimble Chief

Reports and Management Section

Hazardous and Solid Waste Division

SR: ok

cc: Texas Water Commission <u>District 5</u> Office - Tyler

BORING LOG SYMBOLS

Sandy Clayey Silt Sand Silt Sandy Silty Clay -Clay Peat Silty Sand Organic Clay Or Peaty Clay Clayey Sand Shells Sandy Silt Fill Clayey Silt Shale Sandy Clay Limestone Silty Clay Caliche Sandy Cobbly Gravel Silty Clayey Sand Sandstone Mari Siltstone Igneous Rock



Claystone

ERM-Southwest, inc.

Sandy Febbly Gravel

T & N LANDFILL GROUND Project WATER MONITORING SYSTE	M. TANY	AREHOUSE	Drilling Log,
Location LONEST AR, TEXAS	-06	Sketch Map	
Well Number TN-1	W.O.Number 35° Total Depth 70	Diameter 43/4"	
Surface Elevation			: .
Screen:Dia. 2-	Length 5°	Slot Size 0.01"	•
Casing:Dia. 2	Length 15 1 /4'; 1	/2'SUMP Type	Notes 1 Exploratory bore-
Drilling Company SOUTHWESTERN L	.ABS. Drilling I	Method	hole drilled orginally to 70° and grouted. TN-1 drill-
Driller FLOYD SNEED	Log By H.C.SHUMWA		ed to a depth of 23°. Ad jacent to borehole.
DEPTH(Feet) GRAPHIC LOG Well Construction jample Type Cohesive Strength (tons/sq.ft.) o Penetr ation Test (Blows per 6")	Sample Interval (Ft.) Description Interval (Ft.)	Description/Soil (Color,Texture	1
5 San	0-27.5 0-22	VERY SANDY CLAY TO VERY CL low, orange, and red, gray sand small ferrous cemented sandsto subangular, medium grained organic debris and roots presented to 10° becomes brown and tander at 14° becomes tan and gray were considered.	ly laminae and layers, ne rocks, sand grains.— lanic debris, fill. of clayey sand and sand, i, clay pockets and lenses, sand is wet.
20	22-3 7 27 5-29	damp and medium stiffness, so sandstone fragments. at 15' becomes orange and tan streaks. CLAYEY SHALE - dark brown, hadark olive green glauconetic sandthick). Natural material at 24' have a decrease in sand	andstone and ferrous with soft white clay rd, laminated with many d# lenses (1/2" to 1/3"
30	34-35	some siderite layers and stoneat 29 1/2 have siderite layerat 34 see minor amounts of p	s. s
35-	37-39 37-39	laminae. VERY CLAYEY SAND-Reddish bro	· · · · · · · · · · · · · · · · · · ·
40-	39-40 44-45	SIZE. Dry. SLIGHTLY CLAYEY SAND-yellow clean sand, .12 mm diameter, grains, uncemented, clay. Has first 44° becomes yellow to reduction & gray clay pockets and strown & gray clay pockets and strown & gray clay pockets.	ish orange, dense, fairly somewhat splintery errous cemented laminae mottled sand with white to

T & N Project YATE	LANDFI	ILL (SROUND NG SYSTE	M	T&NYA	REHOUSE	Drilling Log ₁₆
Location LONE				- W.O.Numb	35-	06	Sketch Map
Yell Number	TN-1					Diameter	
						24 Hrs	
Screen:Dia				Length .		Slot Size	
Casing:Dia				Length _		Туре	Notes
				-		1ethod	Cohesive strength or Penetration Test
Driller FLOYD						Y Date Drilled	(Blows per 6 ⁻)
DEP TH(Feet) GRAPHIC LOG	Well Construction	iample Type	Cohesive Strength (tgns/sq.ft.) to Penetr ation Test (Blows per 6")	Sample interval (Ft.)	Description Interval (Ft.)	Description/	Soil Classification ture ,Structure's)
45 -45 -50 -60 -65 -70		M M	50/2.5" 50/1.5" 50/3" 50/2.5" 44/6" 50/5"			at 54' becomes white clear at 62' driller notes wet s at 64.5' becomes dense to wet .Bottom clay layer with at 69' have wet gray sand	and. an and white Queen City sand, ith leaf molds. do sand is composed of either e. The difference is not

	Project	T&N WATER	LANDF	LL ORI	GROUND NG SYSTE	M.	T&N YA	REHOUSE	Drilling Log
	Location LONE STAR , TEXAS					Y.O.Numb	35-	06	Sketch Map
	Well Number TN-2					Total Dept	h 70	Diameter 43/4"	
	Surface Elevation					Water leve	el:Initial _	24 Hrs	·
	Screen:Dia. 2"					Length _	10.	Slot Size 0.01"	
	Casing:	Dia. 🚊	2*			Length _	16.5'/3' \$	UMP Type SCH 40 PVC	Notes I Intially the hole was
	Drilling	Compa	ny <u>50</u> U1	Ή¥	ESTERN L	ABS.	_ Drilling N	AIR ROTARY TO 16' 1ethod THEN WET ROTARY	logged to 70' and grouter
	Driller.	FLOYD	SNEED			Lag By H.C	C.SHUMWA	Y Date Drilled 8/13/86	up. Then TN-2 was red drilled to 29.5
	DEPTH(Feet)	GRAPHIC LOG	Well Construction	sample Type	Cohesive Strength (tons/sq.fl.) to Penetr ation Test (Blows per 6")	Sample Interval (Ft.)	Description Interval (Ft.)	Description/Soi (Color,Texture	
2	25 1 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					0-20 24-25 28.5-29.5 34-35 39-40 44-45	0-29.5 28.5-49	CLAYEY SAND TO VERY SANDY red, .2mm dia. grain size, ferr organic debris, fill ,dryat 4' has clay pockets and ments, slightly dampat 6' have sand layer, grainat 7' becomes tan and white fragments9' becomes wet, non-cement sand11' becomes orangish tan to e12' has organic debris and br at 18' becomes light gray and silt pockets and organic debr CLAYEY SHALE - dark brown, I small laminae, many dark olive lenses 1/4 to 1" in thickness. I sideritic layers 1/2 to 1 1/2'at 34' have a decrease in glar few small pyrite crystals along at 44' have green Clay/Silt I glauconitic sand layers	ous sandstone fragments, any ferrous rock frag- size .1 to .3mm: with few ferrous rock ed tan and light gray silty red sandy clay own clay laminae. d gray sand with few is, fill. daminaed with silty sand e green glauonitic sand have occasional hard thick. Natural. Joonite sand lenses, silt laminae

Project WATER MONITORING S	YSTEM	TANY	NREHOUSE	Drilling Log
Location LONE STAR, TEXAS	Y.O.Numb			Sketch Map
Yell Number TN-2	Total Dept	th	Diameter	_
Surface Elevation	Water leve	el:Initial	24 Hrs	_
Serven:Dia	Length .		Slot Size	*
Casing:Dia.	Length _		Type	Notes of
Drilling Company		_ Drilling I	Method	_
Driller FLOYD SNEED	Log By H.(C.SHUMYA	Y Date Drilled 8/13/8	36
DEPTH(Feet) GRAPHIC LOG Vell Construction jample Type Cohesive Strength (lons/4q.ft.)	o Penetr ation Test (Blows per 6") Sample Interval (Ft.)	Description Interval (Ft.)	-	Soil Classification ure ,Structures)
50- 55- 60- 65- 70-	49-50 54-55 59-60 64-65 69-70	49-64 64-69 69-	clayey shale layers and sideat 54' becomes very silty60' have gray sand layer CLAYEY SHALE - dark brown layers/lenses. SAND- gray	sand n, with wet green silty sand nite sand is composed of chamosite. The difference is

· · · / · · · ·	HIOR	ING SYSTE	Muner	TANYA	REHOUSE	Drilling Log
Location LONE STA			Y.O.Numb	35-	06	Sketch Map
Well Number TN-3			Total Dept	th35	Diameter 4 3/4"	1.
Surface Elevation _			Water leve	el:Initial <u>1</u>		
Screen:Dia. 2"	•		Length :	5.	Slot Size 0.01"	
Casing:Dia. 2"			Length _	16.4'/3' SI	UMP Type SCH 40 PVC	Notes 1 Hole drilled initially to
Drilling Company S	YHTUK	YESTERN L	ABS.	Drilling N	dethed AIR ROTARY	35° and then grouted up to
Driller FLOYD SNEE			_	C.SHUMWA		the surface. TN-3 redrill- ed to a depth of 29.4'.
DEPTH(Feet) GRAPHIC LOG Well	semple Type	Cohesive Strength (tons/fq.ft.) to Penetr ation Test (Blows per 6")	Sample Interval (Ft.)	Description Interval (Ft.)	Description/So (Color,Texture	il Classification
15 20 25 30			0-20 24-25 29-30 34-35	13.5-16.5 16.5-18 18-31.5	VERY SANDY CLAY TO CLAY So tan, ferrous sandstone fragments. SLIGHTLY CLAYEY SAND - oran .225 mm. at 5' becomes tan sand with YERY SANDY CLAY - reddish to ferrous sandstone fragments. SAND - tan, with silty sand and dry, fill. at 10' dry SILTY SAND - dark olive green grain size; 13 mm, Naturalat 12' becomes blackish gree SANDSTONE - dark olive green (1/2" thick) CLAYEY SAND - dark olive green (1/2" thick) CLAYEY SHALE - dark brown, shenses of dark olive green glaud amount of lenses decreases withat 24' have pyrite crystals a sand lenses at 29' very few sand lenses. VERY CLAYEY SAND - orangish subrounded grains, micaceous, of the glauconitic sand either glauconitic or chamely subrounded grains, micaceous, of the glauconitic or chamely subrounded grains, micaceous, of the glauconitic sand either glauconitic or chamely subrounded grains, micaceous, of the glauconitic or chamely subrounded grains, micaceous, of the glauconitic sand either glauconitic or chamely subrounded grains, micaceous, or the glauconitic sand either glauconitic or chamely subrounded grains, micaceous, or the glauconitic sand either glauconitic or chamely subrounded grains, micaceous, or the glauconitic sand either glauconitic or chamely subrounded grains, micaceous, or the glauconitic sand either glauconitic or chamely subrounded grains, micaceous, or the grain subrounded grai	nts, gravel, fill. Ige, grain size is from Itan to red clay lenses, fill. I verlowish brown, with fill. I very sandy clay layers, , with glauconitic sand a, n, wet. , wet, with siderite layers on glauconite sand, wet. silt laminae. conitic sand; size and th depth. nd mica flakes in green brown, 15 to25 mm dry may be composed of

T & N LANDFILL GROUND Project WATER MONITORING SYST	EM T&NWA	AREHOUSE	Drilling Log
Location LONE STAR, TEXAS	Y.O.Number 35-	06	Sketch Map
Well Number TN-4	Total Depth33	Diameter 4 3/4"	
Surface Elevation		_	٠.
Screen:Dia. 2"	Length 10°	Slot Size 0.01"	
Casing:Dia. 2"	Length 14'/3' SUI	MP Type SCH 40 PVC	Notes Hole originally drilled
Drilling Company SOUTHWESTERN	LABS. Drilling t	Method AIR ROTARY	to 33" then grouted to
Driller FLOYD SNEED	Log By H.C.SHUMWA	8/12-	surface. TN-4 Redrilled to a depth of 29".
DEPTH(Feet) GRAPHIC LOG Vell Construction iample Type Cohesive Strength (tons/sq.fl.) to Penetration Test	Sample Interval (Ft.) Description Interval (Ft.)	Description/Soi (Calar,Texture	
23/37	05 1-1.5 2-3 3-20 continous on 1 foot intervals 8.5-9 8.5-12 12-17 17-31.5 24-25 29-30 31.5-33	CLAYEY SAND TO VERY SANDY tan color, many ferrous sandst pockets. fill. at 3' have limonite layers/lat-4' becomes light gray sandy on the sandy ferrous sandstone layers. SILTY CLAY - light brown, who streaks, large ferrous sandstone CLAY - dark gray, very soft, it sands? at 9' becomes bluish gray has green sand (Natural). Sandstone - dark olive green, we siderite layers. at 13' becomes wet. CLAYEY SHALE - dark brown, laminae, and many dark olive green that decrease with depth, smallaminae. Sand damp but not wet. at 29' very little green sand, shale. CLAYEY SANDSTONE - orange,	one fragments, clay rge fragments, clay with clay, clay sand s. ite clay laminae and ne fragments. few dark green glauconite rd clay with increase in with glauconite sand, some aminated, small silt reen glauconite sand lenses ill pyrite crystals along predominately clayey
35- -35- 	32-33	grains, fairly cohesive, white c with little mica. Dry *Note: Glauconitic san	lay lenses and laminae d may be composed of laminasite. The difference

	December 86	January	February	March	April
TN-1	420.77	421.13	421.10	421.57	421.38
TN-2	421.21	421.38	421.32	421.63	421.43
TN-3	415.74	414.98	414.94	412.98	412.88
TN-4	416.16	4/6.37	4/6.21	416.04	415.76
Pond	414.50	414.50	414.50	412.03	412.03

* All water lovel evaluations (MSL) (foot)

ToN attributes cutting of the scathern dike to the lower elevations observed at montering well no. 3 (TN-3). The dike was breached in February.

TEXAS WATER COMMISSION District No.

Montoring Well Elevations
Town Lone Star Warehouse Co.
Reg No. 33373

040550

TEXAS WATER COMMISSION NOTICE OF REGISTRATION INDUSTRIAL SOLID WASTE GENERATION/DISPOSAL

THIS IS NOT A PERMIT AND DOES NOT CONSTITUTE AUTHORIZATION OF ANY WASTE MANAGEMENT ACTIVITIES OR FACILITIES LISTED BELOW. REQUIREMENTS FOR SOLID WASTE MANAGEMENT ARE PROVIDED BY TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TEXAS WATER COMMISSION (TWC). CHANGES OR ADDITIONS TO WASTE MANAGEMENT METHODS REFERRED TO IN THIS NOTICE REQUIRE WRITTEN NOTIFICATION TO THE TWC.

DATE OF NOTICE: D6-13-86

REGISTRATION DATE: 10-15-85

REGISTRATION NUMBER: 33373

EPA 1.D. NUMBER: TXD981158249

THE REGISTRATION NUMBER PROVIDES ACCESS TO STORED INFOR-MATION PERTAINING TO YOUR OPERATION. PLEASE REFER TO THAT NUMBER IN ANY CORRESPONDENCE.

COMPANY NAME:

TEN LONE STAR WAREHOUSE CO.

P.O. BOX 187

LONE STAR

TX 75668

GENERATING SITE LOCATION:

HIGHWAY 253. LONE STAR, TEXAS

CONTACT PERSON: GEORGE HART

PHONE: (214) 656-3461

NUMBER OF EMPLOYEES: GREATER THAN 100

THE DISTRICT: 05

REGISTRATION STATUS: ACTIVE REGISTRATION TYPE: GENERATOR

HAZARDOUS WASTE STATUS: GENERATOR/TSD FACILITY

I. WASTE GENERATED:

WASTE NUMBER DESCRIPTION CLASS CODE DISPOSITION

DD1 THREADLUBE COMPOUND

IH 974D2D ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): DOD8

002 SOLVENTS. SPENT

IH 910100 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): DOD1

003 VARNISH RESIDUE

IH 983540 ON-SITE/OFF-SITE

NOTICE OF REGISTRATION CONTINUED)

REGISTRATION NUMBER: 33373

COMPANY NAME: TEN LONE STAR WAREHOUSE CO.

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): DODB, DOD1

004 OILS. WASTE I 110450 ON-SITE/OFF-SITE

005 MISC. PLANT WASTES II 270770 ON-SITE

DD6 GARBAGE II 280160 ON-SITE/OFF-SITE

DO7 OIL, WATER SOLUBLE I 109770 OFF-SITE

II. SHIPPING/REPORTING: PURSUANT TO TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TWO PERTAINING TO INDUSTRIAL SOLID WASTE MANAGEMENT, ISSUANCE OF MANIFESTS AND MONTHLY REPORTING ARE REQUIRED FOR OFF-SITE STORAGE/PROCESSING/DISPOSAL OF THE FOLLOWING CLASS I WASTES LISTED IN PART I. A SHIPMENT SUMMARY REPORT SHOULD BE SUBMITTED FOR EACH MONTH NOT LATER THAN THE 25TH OF THE FOLLOWING MONTH.

001 974020 THREADLUBE COMPOUND

002 910100 SOLVENTS. SPENT

003 983540 VARNISH RESIDUE

004 110450 OILS, WASTE

007 109770 OIL, WATER SOLUBLE

III. ON-SITE WASTE MANAGEMENT FACILITIES:

FAC NO_R FACILITY STATUS

DI LANDFILL INACTIVE DISPOSAL

OF WASTE NUMBER(S) 001, 002, 003, 005, 006

30000 CY

SUBJECT TO PERMIT NUMBER (PENDING)
PREVIOUSLY MINED AREA BACKFILLED WITH WASTE AND COVERED

OZ LANDFILL ACTIVE

DISPOSAL

OF WASTE NUMBER(S) 005

8250 CY

PREVIOUSLY MINED AREA BACKFILLED WITH WASTE AND COVERED

D3 TANK (SURFACE) ACTIVE

STORAGE

OF WASTE NUMBER (S) 004

525 6

TANK FOR COLLECTION OF WASTG OILS PRIOR TO SALE

3

MOTICE OF REGISTRATION CONTINUED)
REGISTRATION NUMBER: 33373

COMPANY NAME: TEN LONE STAR WAREHOUSE CO.

O4 CONTAINER STORAGE AREA STORAGE OF WASTE NUMBER(S) 001, 002, 003 ACTIVE

D5 MISCELLANEOUS STORAGE CONTAINERS
STORAGE
OF WASTE NUMBER(S) DD6
MISC. CONTAINERS. COLLECTION OF WASTE D6

ACTIVE

UNLESS OTHERWISE STATED ABOVE, FACILITIES ARE LOCATED AT HIGHWAY 250, LONE STAR, TEXAS COUNTY OF MORRIS

IV. RECORDS.

A. FOR PURPOSES OF FILING ANNUAL REPORTS PURSUANT TO TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TWO PERTAINING TO INDUSTRIAL SOLID WASTE MANAGEMENT, RECORDS SHOULD BE MAINTAINED FOR STORAGE, PROCESSING AND/OR DISPOSAL OF THE FOLLOWING WASTE(S) LISTED IN PART I:

001 974020 THREADLUBE COMPOUND

002 910100 SOLVENTS, SPENT

DO3 983540 VARNISH RESIDUE

004 110450 OILS, WASTE

005 270770 MISC. PLANT WASTES

006 280160 GARBAGE

B. PROOF OF RECORDATION IN THE COUNTY DEED RECORDS, AS REQUIRED BY TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TDWR, SHOULD BE SUBMITTED TO THE EXECUTIVE DIRECTOR FOR THE FOLLOWING FACILITIES LISTED IN PART III IN ACCORDANCE WITH THE FOLLOWING SCHEDULES:

NEW FACILITIES - PRIOR TO INITIATION OF DISPOSAL OPERATIONS.

EXISTING FACILITIES - AS SOON AS POSSIBLE, BUT NO LATER THAN SIXTY (60) DAYS FROM THE DATE OF THIS NOTICE. UNLESS PREVIOUSLY SUBMITTED.

FAC NO FACILITY

O1 LANDFILL

ISW # GENERAL File TEN Lone Star Warchus

Texas Water Commission

INTEROFFICE MEMORANDUM

TO

Mert Coloton, Chief, Enforcement Section

Hazardous & Solid Waste Division

DATE: October 23, 1985

THRU

FROM

Keith Anderson, District 5

SUBJECT: T & N Lone Star Warehouse Company, No Registration

Attached are copies of Chain of Custody Tags SW 06393 - SW 06397 and SW 00430 recently received by District 5. These tags indicate the analytical results for samples collected at T & N Lone Star Warehouse Company, Lone Star, Texas, on 9/19/85 during a District 5 solid waste sampling inspection. These results were summarized and reported by my IOM to you dated 10/11/85. Please see that copies of these tags are added to both District 5's CMI report dated 10/7/85 and the investigation report/enforcement request dated 10/8/85.

John W. Witherspoon, Manager

Attachments

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REF. 8

RECORD OF COMMUNICATION	X Phone Call Discussion Field Trip
	Conference Other (Specify)
o: Marriane Buchannon ssistant General Manager	FROM: DATE: James A. Harris, Jr. 9/15/88
E Texas Water District	ICF/FIT Geologist TIME: 1330 (214) 744-1641
What Is The Water JBJECT: Surrounding Region	r Usage For Lone Star City And The
MMARY OF COMMUNICATION:	
Reservoir is owned by Lor industrial water for the supply to the city of Lor contract expire and moved also said the city does a groundwater use in the sa but has been mostly disco	opulation estimate of Lone Star was 2,023
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PA FORM 1300-6 (7-72)	-3 Which May Be Used Until Supply is Eyhausted

		REF. 1
RECORD OF COMMUNICATION		r (Specify)
TO: Marriane Buchannon Assistant General Manager	FROM: James A. Harris, Jr.	DATE: 9/15/88
NE Texas Water District	ICF/FIT Geologist (214) 744-1641	TIME: 1330
What Is The Water SUBJECT: Surrounding Regio	Usage For Lone Star City And on?	l The
SUMMARY OF COMMUNICATION:		
industrial water for the supply to the city of Lor contract expire and moved also said the city does regroundwater use in the subut has been mostly discontract.	opulation estimate of Lone Sta	ir water as a the city let the neir source. She ner knowledge, to shallow wells,
Concessions, Action Taken C	- REQUIRED.	
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6 1987

Texas Water Commission

INTEROFFICE MEMORANDUM

FIELD OPERATIONS

TO

Russ Kimble, Chief, Reports & Management Section, DATE:

Hazardous & Solid Waste Division

THRU

Luis E. Campos, Hazardous & Solid Waste Coordinator,

Field Operations Division

FROM

Kevin Phillips, District 5

SUBJECT: T&N Lone Star Warehouse Co., Registration #33373

On March 30, 1987, I conducted an industrial solid waste inspection of the subject facility and samples were taken from two of the facility's RCRA landfill ground water monitoring wells. I was accompanied by Judy Yocom and Mark Snyder of Lone Star Steel, who are working as consultants for the T&N Lone Star Warehouse Co.

A total of four samples were taken from two monitoring wells. The wells tested were the monitoring wells which were installed via an agreed order from TWC dated August 13, 1986. Monitoring wells numbers 3 and 4 were the two wells sampled. Well #3 is located on the southeast corner of the landfill and well #4 is located approximately midway of the landfill on the west boundary. The designation of upgradient or downgradient wells has not been made for the wells at this facility. Chain of custody tag numbers HM 10546 and SW 10900 were used for monitoring well #3 and chain of chain of custody tag numbers HM 10547 and SW 10899 were used for monitoring well #4. Chain of custody tag numbers SW 10899 and SW 10900 indicated less than detectable limits for acid extractables, base neutral extractables, pesticides, and volatile organics (see attached sample results). Samples HM 10546 and HM 10547 were tested for cadmium, lead, barium, and chromium. See Table I for results:

Table I

Chain of Custody Tag #	<u>Parameter</u>		Parameter Value(mg/1)	(TAC 335) Max.Conc. of Consti- tuents for Groundwater(mg/1)
HM 10546	рН		6.0 s.u.	NA
	Conductivit	у	335 umhos	NA
	Cadmium (E.	P.Tox.)	< .008	.01
	Lead	II	.022	.05
	Barium	ii	.266	1.0
	Chromium	l 1	.010	.05
HM 10547	рН		5.8 s.u.	NA
	Conductivit	у	840 umhos	NA
	Cadmium		.010	.01
	Lead	n ·	.040	.05
•	Barium	11	.056	1.0
	Chromium	11	.642	.05

IOM- T&N Lone Star Warehouse Co. July 3, 1987 Page 2

In the sample taken from monitoring well #4, the cadmium value is equal to the maximum concentration of constituents for ground water protection listed in TAC 335, which is .010 mg/l. Chromium analysis for this well measured .642 mg/l. This level exceeds the .05 mg/l value by ten times in TAC 335, maximum concentration of constituents for ground water protection.

Please review these results for appropriate action.

Kevin Phillips, Inspector

John W. Witherspoon, Manager

John W. Witherspoon

Attachments

TXD981158249 REF. 9

TEXAS WATER COMMISSION

(X)

13° 13° 55 6W-EA File I.B

AGREED ORDER

Assessing Administrative Penalties; and Requiring Certain Actions of T & N Lone Star Warehouse Company, Solid Waste Registration No. 33373.

On the 13th day of August , 1986, came on to be considered the Petition and Report of the Executive Director, alleging violations of the Texas Solid Waste Disposal Act and the Texas Water Commission ("Commission") rules pertaining to industrial solid waste management and requesting appropriate relief, including administrative penalties. The facility made the subject of the Executive Director's Petition is T & N Lone Star Warehouse Company, P. O. Box 3877, Lone Star, Texas 75668.

After proper notice to T & N Lone Star Warehouse Company (referred to as "T & N"), the parties appeared and announced to the Commission that they had settled all matters in controversy between them and requested the Commission enter this Agreed Order.

This Agreed Order is entered solely for the purpose of resolving the disputed claims between the Executive Director and T & N, and is entered upon the recommendation and consent of the Executive Director and T & N, and without any admission by T & N of the allegations contained in the Findings of Fact and Conclusions of Law or any other factual or legal matter. For this reason this Agreed Order, or any provision hereof, is not to be construed, and will not be construed, to any extent or for any purposes, however and whenever arising, as an admission of liability or violation, directly or indirectly, on the part of T & N, its successors or assigns; nor shall this Agreed Order be admitted into evidence or used in any way, directly or indirectly, in any judicial or administrative proceeding against any party or in any other manner against any party for any purpose other than in further proceedings by the parties hereto to enforce the terms of this Agreed Order.

The Commission, after considering the Executive Director's Petition and Preliminary Report on file, the Answer of T & N, the evidence presented therein, and the argument of all parties, makes the following Findings of Fact and Conclusions of Law:

Findings of Fact

1. The Executive Director has filed a Petition and Preliminary Report in this matter wherein the following findings of fact and the conclusions of law are alleged:

Findings of Fact

- a. T & N is a warehouse in the business of leasing storage space to oilfield pipe manufacturers and sales companies, oil companies and drilling companies, which is located along F.M. 250 approximately three miles east of Lone Star, Texas.
- b. The T & N facility is assigned Industrial Solid Waste Registration No. 33373.
- c. Hazardous wastes generated at the facility include lead-based pipe thread compounds.
- d. Lead-based pipe thread compounds are hazardous wastes when discarded because leachate obtained during the Extraction Procedure ("EP") toxicity test set forth in 40 Code of Federal Regulations ("CFR") §261.24 contains lead in excess of specified concentrations.
- e. Hazardous wastes and non-hazardous wastes generated at the T & N facility were disposed of in an approximately 1.5 acre disposal facility pit at the T & N site.
- f. The T & N disposal facility is not a permitted hazardous waste disposal facility and does not have interim status to operate as a hazardous waste disposal facility prior to the issuance or denial of a permit.
- g. The T & N hazardous waste disposal facility has no groundwater monitoring.
- h. T & N has not obtained financial assurance for closure and post-closure care of the hazardous waste disposal facility and has not obtained liability coverage for sudden and non-sudden occurrences at the disposal facility.
- i. T & N failed to maintain a written closure and post-closure plan for the disposal facility. On July 30, 1986, T & N submitted a closure plan for approval.

Conclusions of Law

- a. T & N is the owner of a hazardous waste disposal facility and is therefore subject to the jurisdiction of the Texas Solid Waste Disposal Act, TEX. REV. CIV. STAT. ANN., article 4477-7 (Vernon 1986).
- b. T & N has violated 31 Texas Administrative Code ("TAC") §336.2 and §336.43 (formerly §335.2 and §335.43) by

operating an unpermitted hazardous waste disposal facility.

- c. T & N has violated 31 TAC §335.116 by failing to implement a groundwater monitoring program at the disposal facility.
- d. T & N has violated 31 TAC §335.112(a)(6), adopting 40 CFR §\$265.112(a) and (b) and 265.118(a), (b), (e) and (f) by reference, by failing to maintain a closure and post-closure plan for the disposal facility.
- e. T & N has violated 31 TAC §335.112(a)(7), adopting 40 CFR Part 265, Subpart H by reference, by failing to demonstrate financial assurance for closure and post-closure care of the hazardous waste disposal facility.
- 2. T & N has filed an answer to the Executive Director's Petition and Preliminary Report.
- 3. The parties have reached agreement regarding settlement of all matters in controversy between them.

Conclusions of Law

- 1. The Commission has jurisdiction to assess administrative penalties for the violations of statutes, rules and orders of the Commission under §8b of the Texas Solid Waste Disposal Act, TEX. REV. CIV. STAT. ANN., article 4477-7 (Vernon 1986).
- 2. The Commission finds that a total cumulative administrative penalty of Five Thousand Four Hundred Twenty Dollars (\$5,420) is appropriate based on violations by T & N and the factors set forth under §8b of the Texas Solid Waste Disposal Act.
- 3. The settlement agreement reached by the parties is consistent with the requirements of the Texas Solid Waste Disposal Act.

NOW, THEREFORE, BE IT ORDERED BY THE TEXAS WATER COMMISSION that T & N Lone Star Warehouse Company shall pay an administrative penalty totaling Five Thousand Four Hundred Twenty Dollars (\$5,420) for violations of the Texas Solid Waste Disposal Act and the regulations of the Texas Water Commission. This penalty shall be received by the Commission on or before the 30th day commencing from the date of this Order. All checks rendered to pay penalties imposed by this Order shall be made out to the "State of Texas --General Revenue Fund." All checks will be delivered to the Chief Fiscal Officer, Texas Water Commission, P. O. Box 13087, Capitol Station, Austin, Texas, 78711-3087, with the notation "Re: T & N Lone Star Warehouse Company Enforcement Order."

IT IS FURTHER ORDERED BY THE TEXAS WATER COMMISSION that T & N Lone Star Warehouse Company shall undertake those certain actions set forth as follows:

- 1. Within 30 days of the date of this Commission Order, T & N shall submit a revised closure plan for the hazardous waste disposal facility to the Executive Director for approval. The plan shall include a groundwater monitoring program and an implementation schedule.
- 2. Within 30 days of the date of approval by the Executive Director of the closure plan, T & N shall demonstrate financial assurance for closure of the hazardous waste disposal facility.
- 3. T & N shall implement the approved closure plan pursuant to the schedule contained in the plan.
- 4. If, upon completion of closure activities, T & N is not able to demonstrate that the closure performance standard contained in the approved closure plan has been met, and that hazardous waste constituents have not entered the groundwater below the facility, T & N shall comply with applicable requirements concerning groundwater monitoring, closure and post-closure, financial assurance and landfills, and shall also submit a completed application for a post-closure care permit for the disposal facility to the Commission. If the requirements in this provision apply, T & N shall accomplish these objectives within 180 days after completion of closure of the disposal facility.

The Chief Clerk of the Commission is directed to forward a certified copy of this Order to each party and to issue said Order and cause same to be recorded in the files of the Commission.

Signed	this	13th	day o	of ₋	August	_, 1986.
			/	\bigcirc	water commission.	
					Hopkins, Chairman	

Ralph Roming, Commissioner

May Uni Alfred Mary April Hefner, Chief Clerk

Ohn O. Houchins, Commissioner

AGRI	EED:	
ву:	Larry R. Soward, Executive Director	Date: 8/13/86
	Texas Water Commission	
By:		Date: 8/13/86
~ <u>,</u> .	T & N Lone/Star Warehouse Company	

•



TWC Reg. No. 33373

TEXAS WATER COMMISSION Solid Waste Compliance Monitoring Inspection Report

C.O. Use Only
TWC District 5 INSPECTION COVER SHEET NAV 0 4 1987
EPA ID No COMMERCIAL WASTE FACILITY
NAME OF COMPANY
MAILING ADDRESS 6.0. Box 300 Len Ster, Tracs 75668 Tel. 214-656-3461
SITE LOCATION How, 250 3 mike east of Landton, Tene Tel.
COUNTY Rivers TYPE OF INDUSTRY P.p. steres
GENERATOR CLASSIFICATION: Industrial Municipal GOVERNMENT FACILITY
Part A Application submitted to the State? Affidavit of Exclusion submitted to the State? Was a written exclusion granted by TWC? Will this facility require a RCRA permit? Yes No / If yes, Date: Yes No / Yes No / If yes, Date:
CURRENT WASTE MANAGEMENT (Haz"H", Class I NonHaz"NH", Class II-"II", Class III-"III")
Generator HNH I Treatment Storage NNH Disposal NNH I Transporter
HW Exemptions: 90-Day Storage / Other .
SQG: Total HW Generation Per Month: <100 kg 100-1000 kg
H W Pacilities (circle facility codes): C T SI WP LT LF I TT TR WDW 0
N H Facilities (circle facility codes): (C T SI WP LT (LF I TT TR WDW O
Anomalies in the above information will be addressed by: (a) Enforcement in progress, (b) Central Office, (c) District Office, (d) Owner/Operator
Type of Inspection (circle): CBI SQG CL CD SA OT FO SW
Inspector's Name and Title Ken Philips / FOST
Inspection Participants Ton Beasley Steve Buyd - Tow Mark Ingder - Lon Ske Steel
Date(s) of Inspection 3-30-8)
Approved: John 11 the print Signed: Xem Manager 427-87 District Manager Inspector Date

曜291987

TEXAS WATER COMMISSION Solid Waste Inspection Report CONTENTS SHEET

COMPAN	IY NAN	IE TON Lone Star Warehouse Co
	1.	Code Sheet (0814)
	2.	Inspection Cover Sheet 2b. Special Insp. Cover Sheet (HB.2358)
	3.	Generators Checklist 3b. Small Quantity Generator Checklist
	4	General Facilities Checklist
	5.	Transporters Checklist
	6.	Facility Component Checklists (codes) a. Containers (C) b. Tanks (T) c. Surface Impoundments (SI) d. Waste Piles (WP) e. Land Treatment (LT) f. Landfills (LF) g. Incinerators (I) h. Thermal Treatment (TT) i. Chemical, Physical, or Biological Treatment (TR) j. Other (O)
	7.	Closure/Post-Closure Checklist 7b. Closure-In-Progress Checklist
	8.	Groundwater Monitoring Checklist Group
	9.	Notice of Violation (NOV) Letter
_	10.	Interoffice Memorandum (IOM)
	11.	Registration
	12.	Maps, Plans, Sketches
	13.	Photographs
	14.	Sample COC Tags
	15.	Other (describe) With will chart, Francial Test letter Closus Plan Downst. Martiful Closus Plan Well bering logs
		required Checklist is omitted, explain:

GENERATORS CHECKLIST

Sec	tion A - NOTIFICATION and WASTE DETERMINATION		***
1.	Has generator completed an appropriate hazardous waste determination for each solid waste produced?	YES	NO
2.	Check the method used for determination: a. Listed as a hazardous waste in 40CFR Part 261, Subpart D. b. Process or materials knowledge. c. Tested for characteristics as identified in Part 261, Subpart C (If equivalent test method is used, attach a copy)		
NOT	E: If a hazardous determination has not been made or appears to be incorre inspector should obtain a sample of the waste for analysis and explain		ents.
3.	Has the facility received an EPA ID number?	YES	NO
4.	Is notification of all waste streams generated correct?	YES	NO_/
5.	Is notification of all waste management (TSD) methods correct?	YES	NO
6.	Does facility generate, treat, store, or dispose of PCB wastes? YES	NO 🗸	,
7.	Does this facility generate used oils ? If yes, describe storage and disposition:	NO	
	Heavy equipment cits, locanotive cits, and web. the cits. The cits are stond at fee: 117, 431	chow go	<u>.</u>
в.	Does this facility generate spent solvents ? If yes, describe storage and disposition:	NO	
	TW was Sifety Kleen solvent and their services Wheth solvent is not stone before picking	In Store	Mpa
	The dea has a Educat / though bely west which is stand at front to are The hor his no	, ,	
9.	Mir weite to dete. Does this facility utilize sumps in the management of hazardous waste? If yes, describe use:	•	,

Sect	tion B - SPECIAL CONDITIONS			***
1.	If generator has received from or transported to a foreign entity any hazardous waste, has the appropriate notice been filed with the EPA Regional Administrator?	N/A <u>/</u>	YES	ио
2.	Was the waste manifested and signed by the foreign consignee?	N/A	YES	мо
3.	Has confirmation of waste transport out of the country been received by the generator?	N/A	YES	мо
Sect	tion C - RECORDKEEPING and REPORTING (335.9*, .10, .13, .70-71)			
1.	Does the generator maintain the following records and reports (if applicable) for the necessary three years?			
	 a. Shipping Manifests b. Monthly off-site shipment summaries c. Monthly on-site land disposal summaries d. Monthly waste receipt summaries *e. Company records of industrial solid waste T/S/D activities *f. Company records of municipal haz. waste T/S/D activities for generators of >100 kg/month, etc. g. Tests and analyses of HW determinations h. Annual reports 	N/A N/A N/A N/A N/A N/A N/A	YES	NO
	Has generator submitted exception reports to TWC for any original (white) copies of manifests <u>not</u> received back?	N/A		
3.	Have any spills, unauthorized discharges, or threats of such discharges occurred? If Yes: a. Have they been reported? b. Have they been remedied? (Explain)	YES N/A N/A	NO V YES YES	NO
	+++ IF GENERATOR DISPOSES OF WASTES ON-SITE ONLY, WRITE N/A	in sect	ION D+	+
Sect	tion D - PRETRANSPORT and MANIFEST REQUIREMENTS		·	
l.	Identify primary off-site disposal facilities:			
	· Solety bles south feety the to pro-			
2.	Are off-site disposal facilities RCRA-permitted or operating under RCRA interim-status standards?	N/A	YES /	NO
3.	Are TWC manifests properly completed?	N/A		
	++++ STOP & SIGN HERE IF FACILITY QUALIFIES AS A SMALL QUARTITY	GENERA	TOR +	+++

Section	D -	(Cont	inue	d)

4. Do containers used to hold waste meet DOT packaging requirements (49CFR Parts 173,178,179) before being offered for transport? (if observed)

N/A / YES NO

5. Does generator label and mark each package in accordance with 49CFR Part 172? (if observed)

N/A / YES NO___

6. Is each container of 110 gallons or less marked with the required hazardous waste warning label?

N/A YES NO

7. Does generator placard off-site waste shipments in accordance with DOT regulations (49CFR Part 172, Subpart F)? (if observed)

N/A YES NO

Section E - ACCUMULATION TIME EXEMPTION

NOTE: A facility may accumulate and store hazardous wastes in containers or tanks for up to 90 days without a permit.

Is the beginning date of Accumulation Time clearly indicated on each container?

N/A YES NO

2. Is each container or tank clearly labeled or marked "Hazardous Waste"? N/A YES NO

NOTE: Attach a Container Checklist for each container storage area.

NOTE: Attach a Tanks Checklist for each tank (or each group of similar tanks).

NOTE: If this is a TSD Facility, proceed to General Facilities Checklist.

TWC	Reg.	No	33373	
Che	cklist	Ivf.	Cosel Sheet	

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(TAC 335, U)
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George Hast listed on the 6-13.86 were is no longer with the conformy. Tel soil
they would have to choose another contact person. Tow wer not supe on this inspect.
who this would be.
Section funt 1 Top her submitted a change plan for faith, of testing
which was appoint by the TWC on 12-5-86 A chan cleave is planned for
the lastill. Closure is dequient upon how they Shel Co and hetre Ina obtaining
a print (Har- 5005) to construct the new horosday with land fill
a permit the second to constitute of the permit the second to the second
Uno in Rétac Inc?
Section /

TWC	Reg.	No.	33373
Chec	klist	t	Election

Section A(1) 1 Ton should make a hazurdow write determination or high equipment
olle Jecometer olle, and which oils. El toxicty to make and ignitability are
medel. (74 (335.62)
·
Section A(+)1 If the oils test hourson or class I then Tow will have the
with there new wester to the NOR It when I is determed the the justo with
are already listed on the NOR
Section Civier Ten should begin kuring across of all hazardow work kept in starge
at the containe strongeral Freikt, On) Weste stand here is a school straight mixture
Thirten (13) diam were in storage on this impretion (TAC 335.8)
Section E(1)1 The beginning date of accumulation we not on the 55 galler metal
Section E(1) 1 The beginning date of accumulation was not on the 55 gollen metal demos at any 04. (TAC 335-69(4)(2))
(2) Each contains was not labeted" Hamidas Wast". (74 335 69 (2)(3))

TWC	Solid	Waste	Inspection	Report

TWC	Reg.	No.	33313
160	ver.	110 .	

GENERAL PACILITIES CHECKLIST

Se	ction A - GENERAL SITE INFORMATION	
1.	Are any solid waste facilities located in the 100-year floodpla	in? NO YES
2.	Describe land use within one mile hard, Industrial Trea Cre Flinie	g(infat)
3.	Are there any closed or abandoned solid waste facilities? .	NO VES
4.	Has proof of deed recordation of all solid waste Land Disposal facilities been provided to TWC?	N/AYES/_NO
5.	Is there any evidence of fires and explosions on leaks and dischings to the environment. from solid waste facilities by any other type of facility?	NOYES/
NOT		facilities.
	Attach Plant Map showing site orientation, waste management and major topographic features (Second and A, B, -C) +++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT Signed:	
Sec	and major topographic features (Secondary A, B, -C) +++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT	
Sec 1.	and major topographic features (Secrethichment A, B, -C) +++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT Signed:	
_	and major topographic features (Sec attachment : A, B, +C) +++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT Signed: tion B - PERSONNEL TRAINING fragram started April 24,1486	APPLICABLE +++
1.	and major topographic features (Secrettichment: A, B, +C) +++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT Signed: tion B - PERSONNEL TRAINING fragram started April 24,148C Does the owner/operator maintain a personnel training program? Is the program directed by a person	APPLICABLE +++
1.	and major topographic features (Secretic hours A, B, -C) +++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT Signed: tion B - PERSONNEL TRAINING frequents to be a personnel training program? Is the program directed by a person trained in hazardous waste management procedures? Is the program designed to prepare employees	APPLICABLE +++ N/A YES NO N/A YES NO NO
 2. 3. 	and major topographic features (Sec ethickment: A, B, -C) +++ STOP & SIGN HERE IF THE REST OF THIS CHECKLIST IS NOT Signed: tion B - PERSONNEL TRAINING fragram should April 24/1486. Does the owner/operator maintain a personnel training program? Is the program directed by a person trained in hazardous waste management procedures? Is the program designed to prepare employees to respond effectively to hazardous waste emergencies?	N/A YES NO N/A YES N/A YES NO N/A YES N/A YES NO N/A YES N/A

^{***} An entry in this column indicates explanation/response is needed. Page 1 of 5

Sect	tion C - PREPAREDNESS and PREVENTION			
l .	Is the facility equipped with: a. Internal communication or alarm system within easy acces b. Communication system to call off-site emergency assistan c. Fire, spill control, and decontamination equipment d. Adequate fire-water supply (volume and pressure)		YES / YES / YES /	NO NO
2.	Is the above-noted emergency equipment regularly tested? (\mathcal{S}_{li} \mathcal{L}_{r}	nut)	YES	мо
3.	Is aisle space sufficient to allow unobstructed movement of personnel and equipment?		YES	NO
4.	Has the owner/operator attempted to familiarize local response authorities with: facility layout, entrances and evacuation routes, hazardous waste properties and hazards,		,	
	and the work location of facility personnel?	N/A	YES	мо
5.	Has a primary authority been designated in case more than one law enforcement or fire department responds?	N/A	YES	NO
6.	Has the owner/operator attempted to reach agreements with: State emergency response teams, emergency response contractors, and equipment suppliers?	N/A	YES	NO
7.	Has the owner/operator attempted to make arrangements with local hospitals to familiarize them with the hazardous wastes handled and the injuries that could result from: fires, explosions, or releases from the facility?	N/A	YES/	NO
8.	If State or local authorities declined to enter into the above-noted agreements, was this documented?	N/A	YES	NO
Sec	tion D - CONTINGENCY PLAN and EMERGENCY PROCEDURES			
1.	Is a contingency plan to minimize dangers of accidental releases from hazardous waste facilities maintained at the facility?		YES	NO
2.	Does the contingency plan contain: a. Actions to be taken in response to emergencies b. Description of agreements with police, fire & hospital offi	cials	YES	NO
	• • •	N/A	YES	NO /
	 Names, addresses & phone numbers of emergency coordinators List, description & location of emergency equipment 	,	YES	NO /
	e. Evacuation plans, if necessary	N/A	YES	NO
3.	Have copies of the contingency plan been provided to: local police and fire departments, hospitals, and State and local emergency response teams?	N/A ⁻	YES	NO .
	and sente and recar emerkench teabouse teams!	···/ ^		<u></u>

+++ STOP & SIGN HERE IF FACILITY QUALIFIES FOR THE 90-DAY STORAGE EXEMPTION +++
Signed:

Sec	etion E - WASTE ANALYSIS		***
١.	Is a written waste analysis plan maintained at the facility?	YES	NO Y
2.	Does the plan include the following:		
	a. Detailed physical and chemical analysis of all haz. wastes	YES	NO
	b. Rationale for selection of analytical parameters	YES	NO
	c. Analytical test methods used	YES	NO
	d. Sampling methods used to obtain representative waste samples	YES	NO
	 e. Frequency the initial analysis will be reviewed or repeated (including re-testing when waste streams change) 	YES	МО
	f. Waste analyses that generators have agreed to provide N/A (applies to facilities receiving wastes from off-site)	YES	ио√
	For facilities receiving wastes from off-site: Is each incoming waste shipment inspected and, if necessary, analyzed to check it against the manifest? N/A	YES	МО
Sec	etion F - SECURITY		
1.	Does the facility provide adequate security to minimize the possibility of unauthorized entry by persons or livestock?	YES	NO
2.	Is security of the active portion of the facility provided through: (a. 24 Hr surveillance Guards of entrance to Torn facility)		
	b. Perimeter barriers and means to control entry belowie around Ton facility and shain link for bury burbound of facility	YES_/	. NO
3.	Is a sign with the legend "Danger-Unauthorized Personnel Keep Out" (or an equivalent legend) posted at all entrances and approaches to active portions of the facility?	YES	· ——
4.	Is the sign legible from at least 25 feet?	YES	NO

02/87

NOTE: The sign must also be written in Spanish in counties bordering

the Republic of Mexico.

Sec	tion G - GENERAL INSPECTION REQUIREMENTS	***
1.	Is a written inspection schedule maintained at the facility? N/A	YES / NO
2.	Does the schedule provide for inspection of the following:	
	 a. Monitoring equipment b. Safety and emergency equipment c. Security devices d. Operating and structural equipment 	YES NO NO YES NO NO YES NO
3.	Does the schedule identify the following types of problems to be looked for during the inspection:	
	 a. Malfunction and deterioration b. Operator error c. Discharge or threat of discharge 	YES NO NO YES NO
4.	Does owner/operator maintain inspection logs which include:	
	 a. Date and time of inspection b. Name of inspector c. Notation of observation d. Date and nature of repairs and remedial action 	YES NO YES NO YES NO NO
5.	Have malfunctions or other deficiencies (fragram just started no deficiency) noted in the inspection log been corrected? or malfunction mated NA	YES NO
6.	Are inspection log records maintained for three years?	YES NO
	tion H - SPECIAL REQUIREMENTS	
1.	Does the owner/operator take precautions to prevent accidental ignition or reaction of ignitable or reactive wastes? N/A	YES V NO
2.	Are smoking and open flame confined to designated areas? N/A	YES / NO
3.	Are "No Smoking" signs posted in areas with ignitable or reactive waste	s?
	N/A	YES NO

Section I - MANIFEST SYSTEM, RECORDKEEPING and REPORTING			***
1. Does owner/operator comply with manifesting requirements?	N/A	YES	NO
2. For wastes received from off-site:			
a. Is waste that is transported by rail or water accompanied by properly executed shipping papers? b. Have all shipments been consistent with the manifests? c. Are unmanifested wastes reported to TWC? d. Have manifest discrepancies been reconciled with the generator and transporter?	N/A /	YES	
Section J OPERATING RECORD			
1. Is a written operating record maintained at the facility?	N/A	YES	NO
2. Does the operating record reflects the following:			
a. Description and quantity of each hazardous waste received and the method and date of treatment, storage or disposal at the facility.	N/A	YES	NO
b. Location & quantity of each haz. waste in the facility.	N/A	YES	NO
c. Records and results of waste analyses and trial tests.	N/A_	YES	мо
d. Summary reports of all incidents requiring implementation of the Emergency Contingency Plan.	N/A <u>·/</u>	YES	мо
e. Closure Cost estimates for all facilities.	N/A	YES	NO
f. Post-Closure cost estimates for all disposal facilities	N/A	YES	NO
Section K - FINANCIAL ASSURANCE			
1. Did preinspection call to Central Office confirm that the facility has submitted current financial assurance documentation?	N/A	YES	NO
2. If Yes, indicate the documents submitted and their respective value	ies:		
Sudden Liability- Amount: \$ per occurance, Non-sudden Liability- Amount: \$ per occurance,	\$ \$		annua l annua i
Closure Assurance - Amount: \$ 123 ooc Post-Closure Assurance - Amount: \$			
Corrective Action- Amount: \$			
3. Did Financial Assurance Officer report that documentation is adequated the Sonia Ralls 4-23 87 (rechide) entitled incolognate financial ensurance	nate? N/A	YES	NO

· TWC	Reg.	No.	33373
Chec	klist	. 1	Fac. litiu

Section A(5) 1 During this inspection it was outed that the ferce was removed from the
southerst end of the heronday land fill (Facility OI) It iles also noted that the
scubisst and of the landfill area hard been excavated, by trenching out the dike, to
allow fording water which surfaces in the landfill to discharge. Tow is currently monitoring
desided led concentration each month (orefresth) hat where where the hourse from the
land fill and, is agreed in the closure plan.
Section BOSY Tow has produced research from and has an outline of courses
Section B(5) Ton has produced personal trange and has an outline of courses le translayer but his not decemental the type administrat of transay (TAC 325 112/40 CFR 265-16 (6)(2))
112/40 CFR 265-16 (6)(3)
Job fither und 4 weither job description are much for such parties. (TAK 335-112/46
(FR 245.16 (4)(2))
Section Civical Facility 04 (Containe Storage Arms) dici not have fin extinguished in
Section Civical Facility 04 (Cantonie Storing Arm) dici not have his extinguishers on The area Works storial here are ignitable (TPC 335, 111/411 (TPC 265. 32(c))
Section C(2) 1 Sec comment C(1)(c), above. N. fire extraorder in georget.
The standing of the standard o
, —————————————————————————————————————

TWC Reg. No	33373
Checklist	Facilitie

COPPLENTS SHEET

Section D I TAN does not have a controller plan Ton true to we Love Stor Steels
Continuer flow as its own. Ton should have a continuer flow to this facility (To
(TAL 335/12/40 CFR 26550)
Section F I A written write unalger plan is middled for this field of CAC 335-112/40
Section E 1 A written write unalyer plan is maded for this Licility (JAC 335/12/40 CFR 265/3).
Section F(1) 1 Su comment A (5). Top also has contractors working at the warehouse
(TON) - With the southeast fine being down and could leading to the land fill (b)
Low not provide mornel possibility of unoutherized entry. (TAC 335.112/40 CFA
265.14(0)).
Section F(304) The hazarien landfill (Franktyci) ded not law sign forted with the
Section F(304) The hazarien landfill (Franktyce) Ad not have sign posted with the legal "Danger- Hazarter, and Personal King Out" (TAC 335-112/40 CFR 265-14(c)). The
fucility had sign stating "Anthorned Puranel Coly" by t did not alert puranel
entering the area that danger was parsible.
Signe were light but not worded correctly.
·

TWC Reg. No	33373
Checklist	Fac. 1, 4,4

Section (5(1)(b)/ Tow will have to maily its yeneral inspection schooling to include injection of
file extinguisher to be intalled at facility 04 (Cation Storage for.)
(-1 235 12 1 m cre 21 - 15 14 14 1
(TAC 335/12/ 40 (FR 265.15 (6X1))
Section (-(4)(4) Inspection logs should include the date and time it inspection.
Section G(4)(a) Inspection loss should include the date and him of inspection. (IAC 335-112/40 CFR 265-15 (d))
Section H (3) 1" No Smeking" signs are needed at facility 04 (Je 335-112/
Section # (3) 1" No Smaking" signs are needed at facility 04. (70:335-112/ 40 (FR 265-17(a))
Section J /(2)(b) Forture to maintain a written operating record for Fig. 1. ty 01 and 04.
(TAC 335-112/40 CFL 265. 23(4)(2))
Section K / Tray day at 6 and 1 in the last of the
Section K 1 ToN day not have saddly and non-sweden lightly for the
Igilfill (Facility Of). According to Sour Rally, Franco I Other Tick Ton
submitted a little of codet for closure of \$ 123 000
(TAC 335-112 /40 (FR 261 Sibrar + H)

ONTAINER STORAGE AREA CHECKLIST	ActA Class of Wastes (
WC Solid Waste Inpection Report	Reg. Facility No. 04
NG Salid Harry Languis Depart	TWC Reg. No. 33313

1.	Are containers in good condition?	YES NO
2.	Are the containers compatible with the wastes being stored?	YES 🗸 NO
3.	Are containers kept closed and stored in a safe manner?	YES/ NO
4.	Are containers inspected weekly for leakage and deterioration?	YES NO
5.	Are containers holding ignitable or reactive wastes kept at least 15 meters (50 ft) from the facility's property line?	N/AYES/_NO
6.	Are containers holding incompatible wastes separated by a physical barrier or sufficient distance?	N/A VES NO
7.	Does the storage area have containment protection?	YES NO
8.	Describe the Container Storage Area using comments and/or photos:	
	Container are stone under a metal building on wholen pullets	
	Containes stored in this area have not been inspected or any frequency (TAK)	335.112 /40 (FR 265-174
	, , , , , , , , , , , , , , , , , , ,	

^{***} An entry in this column indicates explanation/response is needed.

TWC Solid Waste Inspection Report

LANDFILLS CHECKLIST

rwc Reg. No. 33313 Reg. Facility No. 01

Ingetue

Class of Wastes(H

Class of	"dates(
Type of Wastes: Lube wester threed the companie, solvents	
Type of Liner: Native Soil	
Is there a Leachate collection and removal system? Yes No 🗸	
A. GENERAL OPERATING REQUIREMENTS	***
1. Does the active part of landfill have an adequate run-on control system?	YES / NO
2. Does the landfill have an adequate run-off management system?(Su Commet)	YES / NO
a. Is the run-off analyzed to determine if it is hazardous?	YES / NO
b. If it is hazardous, how is it managed?	
c. Is collected run-off discharged to surface waters? YES_	NU 🟒
(1). If Yes, list TWC-WQ and EPA-NPDES Permit No(s):	
3. Is the landfill managed so that wind dispersal is controlled?	YES NO
B. SURVEYING AND RECORD KEEPING	
l. Is the following information maintained in the operating record:	
a. On a map, the exact location, dimensions, and depth of each cell with respect to surveyed bench marks?	YES NO
b. The contents of each cell and approximate location of each haz. waste type within each cell?	YES NO
C. SPECIAL REQUIREMENTS	
1. If ignitable or reactive waste are placed in the landfill:	
a. Are they rendered non-ignitable or non-reactive before or immediately after placement in the landfill? N/A	YES NO_
b. Describe or attach copy of treatment:	
 If incompatible wastes are placed in the same landfill: Are they handled so as to prevent violent reactions, toxic or flammable gases, damage to the facility, 	
or threat to humans or the environment?	YES NO

*** An entry in this column indicates explanation/response is needed. Page 1 of 2

3. If free liquid wastes (non-containerized) are placed in the landfill:	***
Are the wastes treated so that no free liquids are present? $N/A / YES$	NO
4. If a container holding free liquid is placed in the landtill:	٠
Does facility comply with requirements of 40CFR 265.314(b)? N/A YES (i.e.: Liquid is absorbed or solidified; container is very small; container is a battery, capacitor, etc.; container is a lab pack)	NO
5. If empty containers are placed in the landfill:	
Are they crushed or shredded prior to burial? N/A YES	NO
D. FOR CLOSED LANDFILLS OR LANDFILL CELLS	
	VES_
2. Is there evidence of improper maintenance or inadequate drainage? NO	✓ YES
E. GROUNDWATER MONITORING 1. Does the landfill have a RCRA groundwater monitoring system? N/A YES (Use GWM checklist if applicable) MW. w': Twill Twill	
Comments: 1. 5 gent fill area. The fund area is approximately 30 acres.	
A closure plan has been submitted and apprend for this fielty	
A(2) / Forc 1ty OI has a spring which surfaces with the landfell new the south and (See other	
Top has been surfling cureft from the landfill to dissofred level (andmosth) on mists	thit the
land till discharges. This sampling is required by the closure plan.	
* A landfill that first received hazardous wastes after Nov. 8, 1984. Page 2 of 2	08/86

TWC Solid Waste Inspection Report

CLOSURE-in-PROGRESS CHECKLIST

TWC Reg. No. 33323

Reg. Facility No. <u>01</u>

		Tracker	:	
Тур	e of facility component: Landf.//			
1.	Is the facility component being closed a RCRA unit?	YES/	NO	
2.	Type of closure: Full-Facility Closure / Partial Closure			***
3.	Has closure plan received TWC approval or final modification? Date of approval: 12-5 86	N/A Y	es	ΝО
4.	Is this the last on-site facility to be closed which requires RCRA groundwater monitoring? N/A	YES /	NO	
5.	Has an approved public notice of closure been published? N/A			
6.	Is a public hearing required? Date of hearing:	YES	NO	
7.	Has on-site closure work started? Date work initiated: Austria Granully on to lied has occurred	YES /	NO	Gwan
8.	Is closure work proceeding according to	N/AY	es_ <u>/</u>	NO
9.	Have 180 days elapsed since TWC approval of the closure plan? N/A	YES/	NO	
	a. If Yes, Has TWC approved an extension period?	N/AY	es_/	NO
10.	Was District Office notified of sampling event when complete removal (clean closure) of a Land Disposal facility was to have been accomplished?	N/A / Y	ES.	NO
	of a mind proposal indicately was to have been decompitation.	., <u>v_</u> -		
11.	Were TWC samples taken to verify completion of closure?	YES	NO	NA.
	NOTE: List chain-of-custody sample tag numbers in comments.			
12.	Is the closure work completed? Date of completion:	YES	NO	
13.	Has the closure certification been submitted to TWC? N/A	YES	NO	

^{***} An entry in this column indicates explanation/response is needed.

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TWC	Solid	Waste	Inspection	Report

			•	
CL	OSURE	å	POST-CLOSURE	CHECKLIST

TWC Reg. No. 33373

Loute (1(CI)

Section A - CLOSURE PLA	N - A cocis	ed by Twe	in 12.5-56
	- ,,,,,		

1. Circle hazardous waste facilities subject to RCRA CLOSURE:

CLOSURE:	C	T	SI	WP	LT	(LF)	I	TT	TR	WDW	0

2. Does th	he facility hav	e a written	closure plan?	YE	S 1	NO

- 4. Does the closure plan include:
 - a. A description of how and when the facility will be:

 (1) Partially Closed
 (2) Finally Closed
 (3) Finally Closed
 (4) YES NO
 - b. An up-to-date estimate of the maximum inventory of wastes in storage and treatment at any time

 during the life of the facility?

 YES NO
 - c. An estimate of the expected year of closure?

 YES / NO______
- - a. Time estimates
 for each phase of closure for each area?

 b. Total time estimate for closure?

 YES / NO
- 6. Are the following Steps to Close included in the plan:
 - a. Removal of wastes

 b. Treatment of wastes

 c. Disposal of wastes

 d. Cap or final cover

 e. Decontamination

 of equipment & structures

 f. Closure certification

 N/A

 YES

 NO

 N/A

 YES

 NO

 YES

 NO

 YES

 NO

 YES

 NO

 YES

 NO

 YES

 NO
- 7. Has the closure plan been amended as necessary to reflect changes in facility operations or design? N/A YES NO

Section B - POST-CLOSURE PLAN

Circle hazardous waste facilities subject to RCRA POST-CLOSURE.

		POST-CLOSURE:	SI WP	LT	LF	o			***
ı.	Does	the facility hav	e a written po	st-closur	e plan?		N/A	YES	NON
2.	Does	the plan address	all RCRA Land	Disposal	facili	ties?		YES	NO
3.	Does	the plan provide	for 30 years	of post-c	losure	care?		YES	мо
4.		the post-closure	•	•			eioo and	froquen	ni as?
	а.	A description of	planned groun	dwater mo	PICOLID	g activi	ties and	YES	NO
	b.	A description of and frequencies				1		~	
			ity final cove	r or othe	er conta	inment .		YES	NO
		of gro	functioning undwater monit functioning	oring equ	ipment			YES	NO
		of lea	chate collecti functioning	on equipm	ent		N/A	YES	ио
			collection eq	uipment .			N/A	YES	мо
	c.	Name, address a						YES	NO
	d.	Requirement for	notice to loc	al land a	sathorit	: y ?		YES	NO
	e.	Requirement for of haz. waste of				estrictio	ons?	YES	NO
5.	Has of t	the plan been ame he facility to re	ended as necess eflect changes	sary durin in operat	ng the d	perating design?	life N/A	YES	NO
		·						<u> </u>	
								 -	
									
	.								

Section C - CLOSURE and Post-CLOSURE COST ESTIMATES

CLOSURE COSTS:		***
1. Is there a written closure cost estimate?	YES	NO
2. Is the closure cost estimate adequate and modified as necessary?	YES	NO
POST-CLOSURE COSTS:		
3. Is there a written post-closure cost estimate? N/A	YES	NO
4. Is the annual estimate multiplied by 30 to cover the entire post-closure care period? N/A	YES	NO
5. Is the post-closure cost estimate adequate and modified as necessa (Incl. labor, notification & deed recordation) N/A	ry? YES	NO
COMMENTS:		
with meditication (Sie attachment "D").	rs appr	ived
	 -	
		

TWC	Reg.	No	33323
Chec	cklist	Chiar	fort Chine

Section A(4)(6) 1 The closure plan fails to estimate the amount of wester standing
fac. 1/2 01 before it was doesned inactive (TAC 335-112/41/92 265.112/41/1)
Section A(4)(e)1 As noted in the 12.5-86 matified clasure flow clasure allows
27 mester from Twe issuance of agreent for for Stor Steel Co and Retail Tre.
Jantill (Secont No. 14W-5008) (Su attachment "D")
Section /
·
Section/

TWC Solid Waste Inspection Report

GROUND WATER MONITORING CHECKLISTS

i. GROUND WATER MONITORING STATUS: Complete the table for each Waste Management Area (WMA):

WMA	Description	Activity Status	Monitoring Status	Number of Wells
1	Lendfill (Facility CI)	Tractive	lst we	u 1 p 3
2				U D
3				ם ע
4				U D

	Give date of approval for waivers, alternate plan, or assessment as applicable: Afternate Plan 12-5-56	plan,	
2.	Provide a diagram locating each monitoring well and waste site(s) List depths, diameter and completion data on each well not includ on the previous inspection report.	. Sec. 11.6.	tochment
3.	Has the following been installed in the uppermost aquifer around each Waste Management Area:		
	a. At least one hydraulically upgradient well?b. At least three hydraulically downgradient wells?	YES	NO /
	c. Indicate WMA(s) that that are not compliant: Successf L3(.) d. Describe possible problems on Comments Sheet.	1+6)+]
4.	If the WMA includes multiple waste management facilities, is each facility adequately monitored? N/A	YES	NO
5.	Does the facility have a GW Sampling and Analysis Plan? Does it adequately address:	YES	МО
	a. Sample collection procedures	YES 🗸	NO
	b. Sample preservation and shipment	YES	NO NO
	c. Analytical procedures	YES	
	d. Chain of custody procedures	YES	NO
6.	Does the facility have an adequate		
-	GW Quality Assessment Plan Outline?	YES .	мо
	, , , , , , , , , , , , , , , , , , , ,		
7.	If the company is performing an alternate groundwater monitoring program or a partial waiver monitoring program,	·	

*** An entry in this column indicates explanation/response is needed.

Page 1 of 2

well sampling procedures or co-sampling monitor wells at the facility.

8. Have records been kept of:		**
a. Analyses for ground water parameters?	YES	NO
b. Calculations of means and variances? sappling afterward for effectment "0"	KES	NO,V. 4
c. Water surface elevations taken at each well sampling event?	YES	NO
d. Calculations of significant differences? 50 8(b) N/A	YES	NO
e. Analyses of duplicate samples (only will water churchen (our)) for contamination confirmation? here been desc.	YES	NO
f. Analyses of samples taken as a result of implementing the Ground Water Quality Assessment Plan? N/A/	YES	NO
g. Results of Ground Water Quality Assessment Plan? N/A	YES	NO
(1). Rates of Migration?	YES	NO
(2). Concentration of hazardous waste and/or constituents thereof?	YES	NO
(3). Analyses of quarterly ground water samples?	YES	NO
h. Copies of the annual reports (Well sampling not for found yet) of the groundwater monitoring program?	YES	NO
	•	
9. Are self-reporting data being submitted (Successer) on the appropriate TWC forms?	YES	NOν.
+NOTE: Complete remaining checklists as applicable to each Waste Man	agement	Area+
Comments:		
		····
	 	
		·

TWC	Reg.	No.	3337
TWC	Reg.	No	3331

FIRST YEAR BACKGROUND SAMPLING

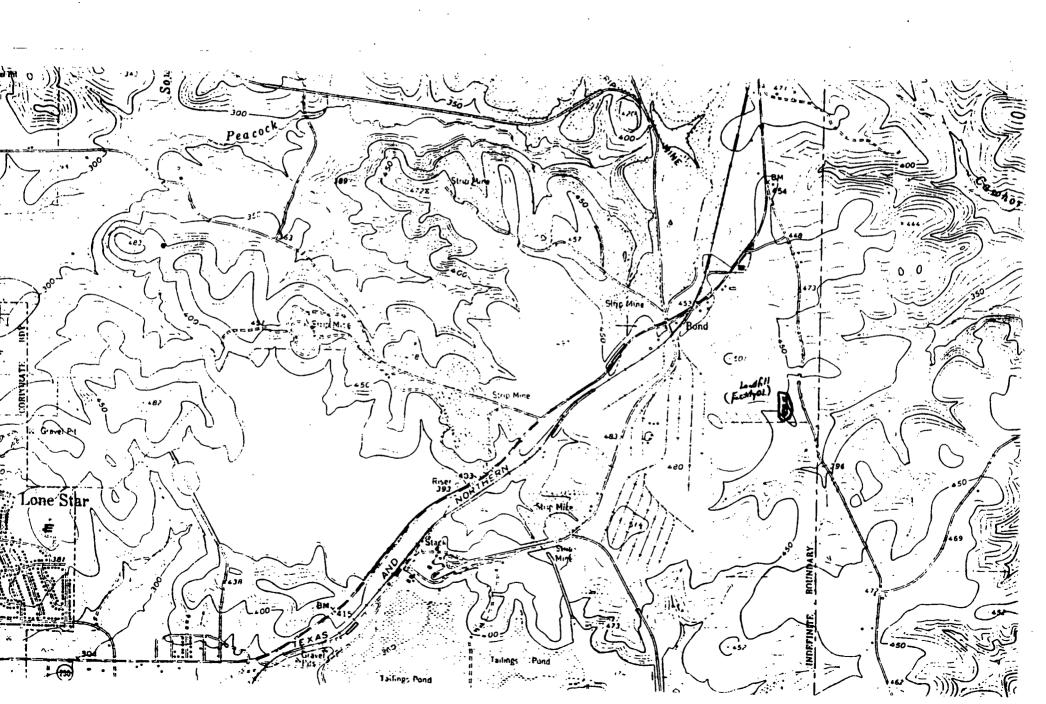
Was	te Management Area(s) (int ())		
			
1.	Are all samples analyzed for:		***
	a. EPA Drinking Water Standards?	YES	ио
	b. Ground water quality parameters?	YES	NO
	c. Contamination indicator parameters?	YES	NO /
2.	Are 4 replicate measurements of contamination indicator parameters made for each well sample?	YES	NO
3.	Are ground water surface elevations determined at each well sampling event?	YES /	NO
	Briefly explain why facility is performing first-year sampling Tan intellige the four (4) montering wells around the haz and fill (Facility OI) in August 1886. The facility is aun	csion w	ah_
	soul on Lex Star Start (a and Letre I-c abtoming a frient to	c the	14 ter Cou
و	df.11.		
			······

TWC	Reg.	No. 33323	·
Chec	klist	GWM	··

Section 1 17-Nintalled for (4) ground water occutiony wills (MW.) dury the week of August 11-13/19
Then wells are referred to as TAVI, TAVI, TAVI, TAVI, The four (4) montaring wells were into lied vie to
Agreed Order (8-13-86) between TWN and the TILK. The agreed order also asked for the
submitted at a clarine flan for the landfill (c) and financial assurance.
Section 3(a+b) / Topl to Joh has perfermed monthly monthly monthly with level elevations on TW-1, TW-2, Two
Tout, and the free standing we ter heal in the bandfill. TAN has also performed fit specific conduction to and
deschool less to tog of conff from the landfill (enforces), on makes that waters distance Alkage Alkage Tons
besper friend mentaly water chosting, they have not designated which well is up souther or which well one down
gradient. There welle were mantered (we to election) for the first time in December 1886. (TAC 335.
40 CFR 265 91)
Section 7 1 Top his not performed ground water sampling of monterny wells no. TW-1, TW-2,
TN-1, and TN-4 as stated by 32, page 3.3, of the approved clasure flow (12-5-96). (Su
attachment "D"). Tan has cally performed water well about tour on the four (4) montering wells.
The flow her been appeared, but not followed (TOC 335.116 (0))
Section 8 / Seccement #7, above. Sei comment 1, next page
Section 9 / Sie attachment "D". Data will be sub mitted on Two forms of the wester mouse
and quartedy sampling starts No mantering well sampling has taken place to date.

TWC Reg. No	. 333,13
Checklist_	First Year

Section 1 / Although Toni suapling then was appared in the desire flow, Ton her not followed the
girend water mentioning plan they submitted for the face (4) mention wells (See comment 7 c, the previous page).
It is of curses that Tow has no place to menter the fail (4) manteringwell be for as of the wester excevation
of the landfill for ElA driking water students, governd water quality presenters, contamnation parameter, and the
up-gradient/daw-gradient designations have not been much on the wells. Top not take fix (5) months
to Souther around with hale which sum inclinately long (Sustadout "N") It has been atta that That disposed
of throothbe week costaining lead and solvente in the landfill During this infliction samples were taken from
Section I menturne wills no. TN-3 and TN-4 (See attendent "B" for well benting).
Sungh HM 10546 (Ph (d, Ce ba) and Sw 10900 (acid there newtrals, U.A) were taken from TW-3
while sample HAM 10547 (Ph (! (Bu) and SW 10879 (acid chase matrick, (b. E) were
taken from 78U-4.
·
Section 2 1 Ten's clusur plan stated replicates would not be performed during the
witiel sangling prayer, however, the meditical charge plan amedinente (See attacharent "O")
of the insets amost does call for replicates and statistics.
,
Section/
•



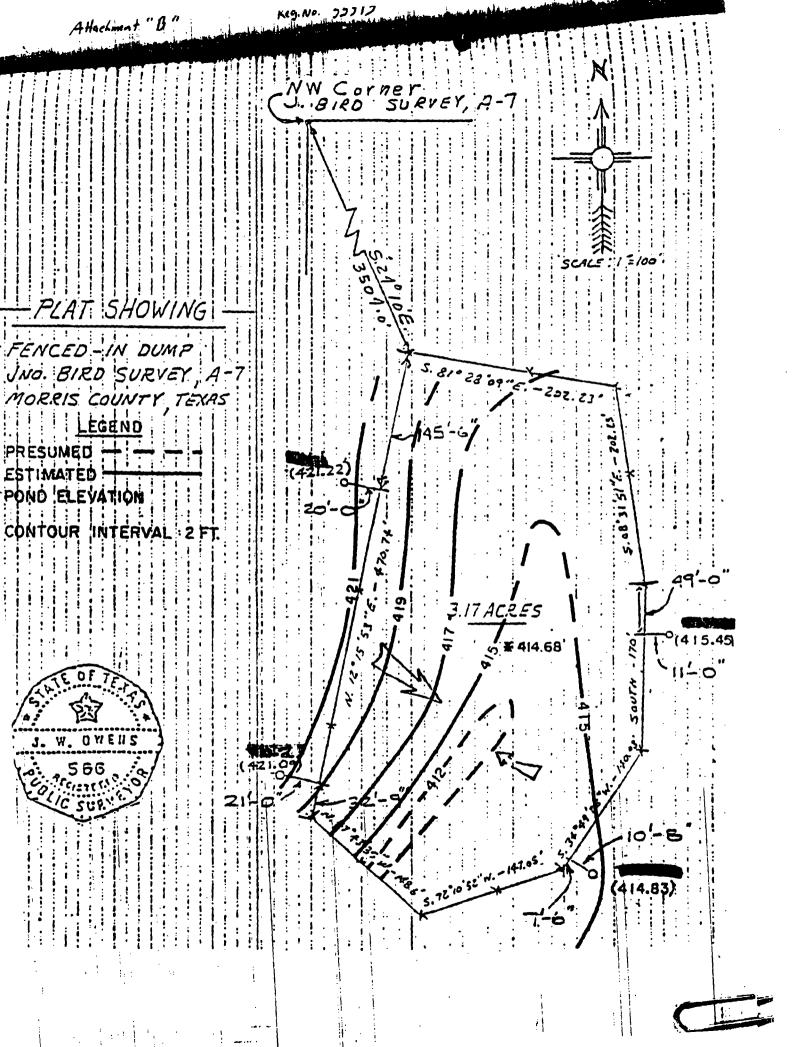


TABLE 1 Summary of Well Construction Details and Initial Water Level Data

Well

- anna del distrimitation de la litte de la company de la

	TN-1	TN-2	TN-3	TN-4
Top of casing (TOC)	435.94	436.16	430.66	431.91
Ground elevation	433.11	433.29	427.69	429.21
Bottom of well	410.3	403.6	403.1	400.2
Screened interval	413-418	406.6-416.6	406.1-411.1	403.2-413.2
Depth to water (from TOC) on 8/22/86	14.72	15.07	15.83	16.46
Water elevation 8/22/86	421.22	421.09	414.83	415.45
Elevation of on-sit spring-fed pond	e		414.68	•
Reference Benchmark	: ! !		437.71	

All measurements in feet. All elevations in feet, msl.

Attachment "D" Reg. No. >3373

TEXAS WATER-COMMISSION

Paul Hopkins, Chairman
Ralph Roming, Commissioner
John O. Houchins, Commissioner

Larry Mary

Larry R. Soward, Executive Director

Mary Ann Heiner, Chief Clerk
James K. Rourke, Jr., General Counsel

December 5, DISTRICT 5

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. J. D. Shiver, Executive Vice President, Operations T & N Lone Star Warehouse Company P.O. Box 187
Lone Star, Texas 75668

Re: T & N Lone Star Warehouse Company Solid Waste Registration No. 33373 Closure of Hazardous Waste Facility

Dear Mr. Shiver:

We have reviewed your letter dated October 30, 1986, which transmitted the Publisher's Affidavit and a clipping of the published Notice of Closure of your hazardous waste disposal facility (Facility Unit No. 01 on your Notice of Registration). We have also reviewed your closure plan for the subject facility.

This letter constitutes approval by the Executive Director of the subject hazardous waste facility closure plan, as modified below. Our evaluation indicates that the closure activities described in the plan should provide reasonable assurance of effective industrial solid waste management, subject to the submittal of certifications and the modifications listed below.

This closure plan is modified by the following provisions:

- 1. The accelerated ground water monitoring program which is to be conducted after removal of hazardous waste is completed (item 3.2.2. in the closure plan) shall be conducted in accordance with the procedures outlined in Enclosure 1.
- 2. It is noted that the schedule for closure allows 27 months for TWC issuance a permit for Lone Star Steel's landfill (Permit No. HW-50087). A revised schedule for closure shall be submitted to the Executive Director for review and approval within 30 days of issuance of the subject permit.

Mr. J. D. Sh. ar Page 2 December 5, 1986

3. When measuring pH of ground water samples (Appendix B - Sampling and Analysis Plan), the pH meter shall be calibrated prior to analyzing samples from each well using buffer solutions having pH values greater than and less than that of the sample being analyzed.

Upon completion of closure activities, certification shall be submitted by the owner or operator of the facility and by an independent Registered Professional Engineer that the hazardous waste management facility has been closed in accordance with the approved closure plan. Also, notification that the facility has been closed shall be made in accordance with the provisions of 31 Texas Administrative Code Section 335.6.

Should you have any questions regarding this matter, please contact Michael Moore of the Hazardous and Solid Waste Enforcement Section at 512/463-8425.

Sincerely,

Bryan W. Dixon, P.E., Director

Hazardous and Solid Waste Division

MM/mm

cc: TWC District 5 Office

T&N Lone Star Warehouse Company - Reg. No. 33373
"Accelerated" Ground Water Monitoring Program

Ground water monitoring wells at the landfill (Facility No. 01) shall be sampled quarterly for one year following the initial certification of closure (Step 12 in Table 4-2). The first sampling event shall take place within 30 days of certification, and each subsequent sampling event shall take place at 90-day intervals (±10 days) unless otherwise approved by the Executive Director. Sampling and analysis shall be conducted according to item 3.2.2. in the closure plan, and data for lead concentrations shall be statistically analyzed as follows:

- 1. First Quarter Collect 4 individual replicate samples from each well and analyze for dissolved lead using the procedure described in Method 304 of Standard Methods for the Examination of Water and Wastewater, 16th edition (APHA, AWWA, WPCF). A minimum detection limit of 5 µg/L shall be obtained using this method. For statistical evaluations, 5 µg/L shall be used for any values which are less than the minimum detection limit. Determine the arithmetic means and variances for lead concentrations in each well.
- 2. Second and Third Quarters Collect and analyze samples following the same procedures used during the first quarter. Determine arithmetic means and variances for dissolved lead for each well after each quarterly sampling event; these statistics shall be recalculated each quarter, using all replicate lead concentrations from the current and all previous quarters as individual samples (ie: mean and variance shall be calculated for each well using 8 samples the second quarter and 12 samples the third quarter).
- 3. Fourth Quarter Collect and analyze samples following the same procedures used during the first quarter. When laboratory results are available for fourth quarter samples, means and variances for lead concentrations shall be calculated for each well as during the previous quarters, and the background mean and variance from the upgradient well shall be compared with means and variances for downgradient wells using the Student's t-test at the 0.05 level of significance.

Report the ground water monitoring data as required above for each monitor well on the enclosed forms within 20 days of completion of each quarterly laboratory analysis. Information shall be submitted for the highlighted sections of the example in Enclosure 2. TABLE 1 SAMPLE EVENT INFORMATION



or 150 Facility Fermit No

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QUARTERLY GROUND WATER MONITORING REPORT FOR HAZARDOUS WASTE FACILITIES (INTERIM PERMIT STATUS)

Sampb Dea EM-CO-YY		Parameter Code	Sample British	- 1		Grandwise Electro (L)	٠ <u>٠</u> نو.		6	• • • • • • • • • • • • • • • • • • •		To to completed to common benefits of	y dig contributed of Cartes Superioris (Section and Section and Section of Se
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	ا . ـ	33	ode	Gr	1)	Code		Grab	Cade	mg/l Grab	Cado	Grab	for Work all continues filtered price to analysis? Dilyes Colou
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TABLE 3 GR		-	JALITY I	ND:CATO	PARAME	TERS							
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009	9		•	1104						7278			
21 - 24 TABLE 4 - PR	:"A7		G WATER	41 STANDAI	47 RDS PARA	METERS	68	64		75	ī	32 63	100 115
Parameter		Arsenie		nanatur I		rista	Parameter	1 1	dmism	Personal	Chromium	Parameter Page	
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T100	!!	. j.	T 50	100			T102			T103		0095	Cede Gra. 7 8 8 1 1 2 8 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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Ecertify under possibly of law that in the personally examined and am familiar with the information submitted in this and ublettifined but innerts and that hased an injury of intitudes of small as in many and presented in the submitted information is true incorrate and complete.

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Kerin

Closure Plan for Site #01 Inactive Waste Landfill

T&N Lone Star Warehouse Company Lone Star, Texas

September 1986

EPA ID No. TXD981158249 TX ID No. 33373

Each well was developed until the well water pH and conductivity stabilized and the water cleared. Following development, the well was bailed or pumped until no less than one volume (if bailed till dry) or three well volumes were removed (if the well recharged fast enough).

All well locations have been surveyed to establish horizontal control, top-of-casing (FOC) and ground surface elevations with respect to an established plant datum or mean sea level. Initial ground water level data were collected in order to estimate the hydraulic gradient and direction of ground water flow. The information gathered during this stage of the hydrogeological investigation will be used to prepare a preliminary report for submittal to TWC.

The locations of the initial four monitoring wells were chosen as the most likely positions to yield one upgradient and three downgradient wells. If, upon examination of the data gathered from the initial borings and wells, it is determined that this is not the case, it will be necessary to drill additional borings for completion as wells. A plan showing the proposed location of the additional well(s) will be submitted to IWC for approval prior to initiation of drilling. Following approval, the District 5 office of TWC will be notified at least 10 days prior to the start of drilling. Any additional wells will be completed using the same procedures as the first, wells.

3.2 Groundwater Monitoring Program

3.2.1 Initial Sampling and Analysis Program

Following installation and development of the wells, a routine sampling and analysis program will be initiated. The District 5 office of IWC will be notified by telephone at least ten days prior to each sampling event. This will allow the TWC the opportunity to observe sampling techniques and/or split samples. Procedures will follow those outlined in the "Sampling and Analysis Plan" (Appendix B).

Sampling will be done quarterly. The water elevation will be measured on each well before it is puryed. To purye, three casing volumes of water will be removed, unless the well can be pumped or bailed to dryness. If recovery of wells which are bailed to dryness is sufficient, wells will be evacuated to dryness again. If necessary, the wells will be allowed to recover before the samples are collected.

Each_well will be analyzed for pH, specific conductance, and lead. The results of the analysis will be reported to TWC within 20 days of receipt of laboratory results. During this initial sampling program, no replicates will be taken and no statistics performed. This program will remain in effect until all wastes have been removed from the site.

3.2.2. <u>Sampling and Analysis for Clean Closure</u> Certification

After excavation of waste has been completed, the sampling and analysis program needed to certify clean closure will begin. Water elevation measurement. purging, and sampling techniques will be the same as in the initial program. The District 5 office of TWC will be notified by telephone at least ten days prior to each sampling event. This will allow the IWC the opportunity to observe sampling techniques and/or split samples. Quadruplicate samples will be taken quarterly for a period of one year. One sample each quarter will be analyzed for pH and specific conductance; lead will be analyzed in quadruplicate. Within 20 days of receipt of laboratory results following each sampling event, the results will be submitted to the TWC on forms provided by the agency for that purpose. After four sampling events have been completed, the Student's t-test statistical analysis will be performed on the lead analytical. results, using the method for accelerated groundwater monitoring which is to be provided by the TWC.

3.2.3 Sampling and Analysis Plan

The "Sampling and Analysis Plan" can be found in Appendix B.

3.3 Surface Water Monitoring Program

There is a surface water discharge (a spring) in the southern part of the landfill area. This discharge will be monitored monthly during those months in which there is a discharge leaving the landfill boundary. The approximate location is shown in Figure 3-1. Samples will be collected grab and analyzed for lead. Results of each month's analysis will be reported to the LWC by the twenty-fifth of each succeeding month.

Attachment "F" Rig. No. 33373

TEXAS WATER COMMISSION

Paul Hopkins, Chairman
Ralph Roming, Commissioner
John O. Houchins, Commissioner



Marsy Appet Herier, Chief Clark James K. Rourke J. Meneral Coursel

CERTIFIED MAIL

January 30, 1987

Mr. Martin J. Rich Chief Financial Officer T & N Industries, Incorporated P.O. Box 38565 Dallas, Texas 75238-0565

Re: RCRA Financial Assurance T & N Industries, SW 33373

Dear Mr. Rich:

This agency has received the financial test documents submitted January 20, 1987 providing closure cost assurance for the above referenced facility.

Our understanding is that T & N Lone Star Warehouse is a wholly owned subsidiary of Lone Star Steel. Year-end financial statements for 1985 were provided to support this financial test instead of the required 1986 figures, and it was unclear whether the figures presented were T & N Lone Star Warehouse or Lone Star Steel figures.

In order for T & N to utilize the financial test, figures must be audited independently from Lone Star Steel. In the event that an independent audit cannot be performed, financial assurance for T & N must be provided by Lone Star Steel through the corporate guarantee as specified in 40 CFR 265.143. The Texas Water Commission will expect a revised submittal using 1986 figures and providing the required Auditor's Annual Report and the Auditor's Special Report no later than 3/31/87.

If you require any assistance, please contact Ms. Sonia Ralls of our Hazardous and Solid Waste Division at 512/463-7764.

Sincerely,

Russell S. Kimble / Chief

Reports and Management Section

Hazardous and Solid Waste Division

SR: ok

cc: Texas Water Commission District 5 Office - Tyler

BORING LOG SYMBOLS

Sand

| | | Silt

Clay

Silty Sand

Clayey Sand

Sandy Silt

Clayey Silt

Sandy Clay

Silty Clay

Silty Clayey Sand

Sandstone

Siltstone

Claystone

Sandy Clayey Silt

Sandy Silty Clay -

Peat

Organic Clay Or Peaty

Clay

Shells

Fill

Shale

Limestone

Caliche

Sandy Cobbly Gravel

Mari

Igneous Rock

Sandy Febbly Gravel

ERM-Southwest, inc.

T & N LANDFILL GROUND Project WATER MONITORING SYSTE	Muner T&NW	AREHOUSE	Drilling Log ₁₆
Location LONEST AR, TEXAS		-06	Sketch Map
Well Number TN-1		Diameter 43/4"	
Surface Elevation			:
Screen:Dia. 2"	Length 5°	51ot Size 0.01"	
Casing:Dia. 2"	Length 15 1 / 4°; 1	/2'SUMP Type	Notes ¹ Exploratory bore-
Drilling Company SOUTHWESTERN L		Method	hole drilled orginally to 70 and grouted. TN-1 drill
Driller FLOYD SNEED	Log By H.C.SHUMWA	9/11-	ed to a depth of 23°. Ad jacent to borehole.
GRAPHIC LOG LOG Vell Construction Jample Type Cohesive Strength (tons/\$q.ft.) o Penetr ation Test (Blows per 6")	Sample Interval (Ft.) Description Interval (Ft.)	Description/Soi (Color,Texture	
00000000000000000000000000000000000000	0-27 5 0-22	VERY SANDY CLAY TO VERY Colow, orange, and red, gray san small ferrous cemented sandst subangular, medium grained orat 7' have alternating layers organic debris and roots presental 10' becomes brown and ta	dy laminae and layers, one rocks, sand grains.— ganic debris, fill. of clayey sand and sand, nt, clay pockets and lenses.
15 1.25 20 4.50+	22-37 27.5-29	at 14' becomes tan and gray damp and medium stiffness, sandstone fragments at 15' becomes orange and ta streaks. CLAYEY SHALE - dark brown, h dark olive green glauconetic santhick). Natural material at 24' have a decrease in san some siderite layers and ston at 29 1/2' have siderite layer	sandstone and ferrous in with soft white clay ard, laminated with many ind* lenses (1/2" to 1/3") d lenses (1/4" to 1/3") es.
35	34-35 37-38 37-39 39-40	at 34' see minor amounts of plaminae. VERY CLAYEY SAND-Reddish brisize. Dry. SLIGHTLY CLAYEY SAND-yelloviclean sand, .12 mm diameter grains, uncemented, clay. Hasat 44' becomes yellow to red	own,.15 to .30 mm grain vish orange, dense, fairly , somewhat splintery ferrous cemented laminae
-	44-45	brown & oran clan pockets and	

Project	T & N	L ANDF	ILL ORI	GROUND NG SYSTE	M	TANYA	REHOUSE	Drilling Log 16
Location					Y.O.Numb	35-	06	Sketch Map
Yell Nu	mber _	TN-1					Diameter	
Surface	Elevat	ion			Water leve	rl:Initial	24 Hrs	_
Screen	:Dia	 -			Length .		Slot Size	
Casing:	Dia				Length _		Туре	Notes Cohesive strength or
Drilling	Compa	ny		·		_Drilling t	1ethod	Penetration Test
Driller!	FLOYD	SNEED			Log By H.	C.SHUMWA	Y Date Drilled	(Blows per 6")
DEP TH(Feet)	GRAPHIC LOG	Well Canstruction	iample Type	Cohesive Strength (tons/sq.ft.) a Penetr ation Test (Blows per 6")	Sample interval (Ft.)	Description Interval (Ft.)		Soil Classification ture ,Structure's)
45 5 6 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			N N	50/2.5" 50/1.5" 50/3" 50/2.5" 44/6" 50/5"			mm grains, angular to sult at 54' becomes white clear at 62' driller notes wet such as the subset of the sub	and. an and white Queen City sand, th leaf molds. s s sand is composed of either
						·	Note: The glauconiti glauconite or chamosite perceivable in the field	e.The difference is not

Project WATER	LANDFIL MONITO	L GROUND RING SYSTE	M	T&NYA	AREHOUSE	Drilling Log
Location LONE			Y.O.Numb	35-	06	Sketch Map
Well Number	[N-2		Total Dept	th <u>70</u>)1 Diameter 43/4"	
Surface Elevat	ion		Water leve	el:Initial _	9' 24 Hrs	
Screen:Dia. 2			Length .	10'	Slot Size 0.01 "	·
Casing:Dia.	2"		Lèngth _	16.5'/3' 9	SUMP Type SCH 40 PVC	Notes
			•		AIR ROTARY TO 16' Method THEN WET ROTARY	Intially the hole was logged to 70° and grouted
Driller FLOYD				C.SHUMWA		up. Then TN-2 was re-
		4 ½	200 Bg		Date Drilled Or 10700	:
DEPTH(Feet) GRAPHIC LOG	Well Construction	Cohesive Strenge (tons/sq.fl.) o Penetr ation Te (Blows per 6")	Sample Interval (Ft.)	Description Interval (F1.)	, Description/Sci (Color,Texture	
20 25 30 35 40			0-20 , , 24-25 28.5-29.5 34-35 39-40 44-45	28.5-49	CLAYEY SAND TO VERY SANDY red, .2mm dia. grain size, ferr organic debris, fill ,dryat 4' has clay pockets and m ments, slightly dampat 6' have sand layer, grainat 7' becomes tan and white fragments9' becomes wet, non-cement sand11' becomes orangish tan to c12' has organic debris and br at 18' becomes light gray an silt pockets and organic debr CLAYEY SHALE - dark brown, small laminae, many dark olive lenses 1/4 to 1" in thickness. sideritic layers 1/2 to 1 1/2'at 34' have a decrease in glai few small pyrite crystals alongat 44' have green Clay/Silt li glauconitic sand layers	any ferrous rock frag- size .1 to .3mm: with few ferrous rock ed tan and light gray silty red sandy olay own clay laminae. d gray sand with few is, fill. laminaed with silty sand e green glauonitic sand e Have occasional hard thick. Natural. uconite sand lenses, silt laminae

T & N LANDFILL GROUND Project WATER MONITORING SYSTE	Mowner Tanya	REHOUSE	Drilling Log
Location LONE STAR, TEXAS		06	Sketch Map
well Number TH-2	Total Depth	Diameter	
Surface Elevation	Water level:Initial	24 Hrs	
Serven:D1a	Length	Slot Size	
Casing:Dia.	Length	Type	Notes
Orilling Company	Drilling h	1ethod	
Driller FLOYD SNEED	Log By H.C.SHUMWA	Y Date Drilled 8/13/86	
DEPTH(Feet) CRAPHIC LOG Vell Construction iample Type Cohesive Strength (tons/\$q.ft.) o Penetr ation Test (Blows per 6")	Sample Interval (Ft.) Description Interval (Ft.)	Description/So (Color ,Textur	
50 -55 -60 -65 -70	49-50		e layers and with wet green silty sand r sand is composed of chamosite. The difference is

T & N LANDFILL GROUND Project WATER MONITORING SYST	EMnuner T&NWA	NREHOUSE	Drilling Log
Location LONE STAR, TEXAS	Y.O.Number 35-	-06	Sketch Map
Well Number TN-3	Total Depth35	Diameter 43/4"	4.
Surface Elevation	• -		
Screen:Dia. 2"	Length 5.	Slot Size 0.01"	
Casing:Dia. 2"	Length 16.4'/3' Si	UMP Type SCH 40 PVC	Notes 1 Hole drilled initially to
Drilling Company SOUTHWESTERN I	LABS. Drilling N	Method AIR ROTARY	35' and then grouted up to
Driller FLOYD SNEED	Log By H.C.SHUMWA	Y Date Drilled 8/13/86	the surface. TN-3 redrilled to a depth of 29.4".
GRAPHIC LOG Well Construction Sample Type Cohesive Strength (tons/\$q.fl.) to Penetr ation Test (Blows per 6")	Sample Interval (Ft.) Description Interval (Ft.)		il Classification
15 20 35 30 40	13.5-16.5 16.5-18 18-31.5	VERY SANDY CLAY TO CLAY S tan, ferrous sandstone fragme SLIGHTLY CLAYEY SAND - oral .225 mmat 5' becomes tan sand with VERY SANDY CLAY - reddish to ferrous sandstone fragments SAND - tan, with silty sand and dry, fillat 10' dry SILTY SAND - dark olive green grain size; 13 mm, Naturalat 12' becomes blackish green SANDSTONE - dark olive green (1/2" thick) CLAYEY SAND - dark olive green (1/2" thick) CLAYEY SHALE - dark brown, Lenses of dark olive green glau amount of lenses decreases wiat 24' have pyrite crystals sand lenses at 29' very few sand lenses. VERY CLAYEY SAND - orangish subrounded grains, micaceous, *NOTE: Glauconitic sand either glauconite or char not perceivable in the fie	ents, gravel, fill. Inge, grain size is from Itan to red clay lenses, fill. Itan to red cla

T & N Project WATER	LANDFILL MONITORI	GROUND ING SYSTE	M	T&NYA	REHOUSE	Drilling Log
Location LONE S			Y.O.Numb	35-	06	Sketch Map
Yell Number	[N-4		Total Dept		1 Diameter 4 3/4"	
Surface Elevati	on	·	•	el:Initial <u>13</u>		٠.
Screen:Dia. 2	•				Slot Size 0.01"	
Casing:Dia. 2			Length _	14'/3' SUI	1P Type SCH 40 PVC	Notes Hole originally drilled
Drilling Compan	_		• -	Drilling N	1ethod AIR ROTARY	to 33' then grouted to
Driller FLOYD S				C.SHUMYA	8/12-	surface. TN-4 Redrilled to a depth of 29".
		Test	Log By		Date Orinea 8713786	
DEPTH(Feet) GRAPHIC LOG	Well Construction Sample Type	Cohesive Strength (lons/sq.fl.) to Penetration Test (Blows per 6")	Sample interval (Ft.)	Description Interval (FL.)	Description/So (Color,Texture	
25		23/37	0-5 1-1.5 2-3 3-20 continous on 1 foot intervals 8.5-9 24-25 29-30 32-33	12-17	CLAYEY SAND TO VERY SANDY tan color, many ferrous sandst pockets. fill. at 3' have limonite layers/la-4' becomes light gray sandy and ferrous sandstone layer SILTY CLAY - light brown, who streaks, large ferrous sandstone CLAY - dark gray, very soft, sands* at 9' becomes bluish gray had green sand (Natural) Sandstone - dark olive green, saderite layers. at 13' becomes wet CLAYEY SHALE - dark brown, laminae, and many dark olive green that decrease with depth, smallaminae. Sand damp but not we shale CLAYEY SANDSTONE - orange, grains, fairly cohesive, white control with little mica. Dry. *Note: Glauconitic sandstone.	rge fragments, clay orge fragments, clay with clay, clay sand s. it clay laminae and ne fragments. few dark green glauconite ord clay with increase in with glauconite sand, some laminated, small silt green glauconite sand lenses all pyrite crystals along t. predominately clayey 2 to .3 mm subangular

	December 86	January	February	March	April
TN-1	420.77	421.13	421.10	421.57	421.38
TN-Z	421.21	421.38	411.32	421.63	421.43
TN-3	415.74	414.98	414.94	412.98	4/2.88
TN-4	416.16	416.37	4/6.21	416.04	415.76
Pond	414.56	414.50	414.50	412 03	412.03

* All water lovel evaluations (MSL) (foot)

T+N attributes cutting of the southern dike to the lower elevations observed at monitoring well no. 3 (TN-3). The dike was breached in February.

TEXAS WATER COMMISSION District No.

Montoring Well Elevations
To N Lone Star Warehouse Co.
Reg No. 33373

DW0550

TEXAS WATER COMMISSION NOTICE OF REGISTRATION INDUSTRIAL SOLID WASTE GENERATION/DISPOSAL

THIS IS NOT A PERMIT AND DOES NOT CONSTITUTE AUTHORIZATION OF ANY WASTE MANAGEMENT ACTIVITIES OR FACILITIES LISTED BELOW. REQUIREMENTS FOR SOLID WASTE MANAGEMENT ARE PROVIDED BY TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TEXAS WATER COMMISSION (TWC). CHANGES OR ADDITIONS TO WASTE MANAGEMENT METHODS REFERRED TO IN THIS NOTICE REQUIRE WRITTEN NOTIFICATION TO THE TWC.

DATE OF NOTICE: D6-13-86

REGISTRATION DATE: 10-15-85

REGISTRATION NUMBER: 33373

EPA 1.D. NUMBER: TXD981158249

THE REGISTRATION NUMBER PROVIDES ACCESS TO STORED INFOR-MATION PERTAINING TO YOUR OPERATION. PLEASE REFER TO THAT NUMBER IN ANY CORRESPONDENCE.

COMPANY NAME:

TEN LONE STAR WAREHOUSE CO.

P-0. BOX 187

LONE STAR

TX 75668

GENERATING SITE LOCATION:

HIGHWAY 253. LONE STAR. TEXAS

CONTACT PERSON: GEORGE HART

PHONE: (214) 656-3461

NUMBER OF EMPLOYEES: GREATER THAN 100

THE DISTRICT: 05

REGISTRATION STATUS: ACTIVE REGISTRATION TYPE: GENERATOR

HAZARDOUS WASTE STATUS: GENERATOR/TSD FACILITY

I. WASTE GENERATED:

WASTE NUMBER DESCRIPTION CLASS CODE DISPOSITION

DO1 THREADLUBE COMPOUND

IH 974020 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): DOD8

DD2 SOLVENTS. SPENT

IH 910100 ON-SITE/OFF-SITE

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): DOD1

OD3 VARNISH RESIDUE

IH 983540 ON-SITE/OFF-SITE

2

MOTIGE OF REGISTRATION CONTINUED)

REGISTRATION NUMBER: 33373

COMPANY NAME: TEN LONE STAR WAREHOUSE CO.

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): DODB. DOD1

004 OILS. WASTE I 110450 ON-SITE/OFF-SITE

005 MISC. PLANT WASTES II 270770 ON-SITE

DD6 GARBAGE II 28016D ON-SITE/OFF-SITE

007 OIL, WATER SOLUBLE I 109770 OFF-SITE

II. SHIPPING/REPORTING: PURSUANT TO TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TWO PERTAINING TO INDUSTRIAL SOLID WASTE MANAGEMENT. ISSUANCE OF MANIFESTS AND MONTHLY REPORTING ARE REQUIRED FOR OFF-SITE STORAGE/PROCESSING/DISPOSAL OF THE FOLLOWING CLASS I WASTES LISTED IN PART I. A SHIPMENT SUMMARY REPORT SHOULD BE SUBMITTED FOR EACH MONTH NOT LATER THAN THE 25TH OF THE FOLLOWING MONTH.

001 974020 THREADLUBE COMPOUND

002 910100 SOLVENTS. SPENT

003 983540 VARNISH RESIDUE

004 110450 OILS, WASTE

007 109770 OIL. WATER SOLUBLE

III. ON-SITE WASTE MANAGEMENT FACILITIES:

FAC NO. FACILITY STATUS

O1 LANDFILL INACTIVE

DISPOSAL

OF WASTE NUMBER(S) 001. 002. 003. 005. 006

30000 CY

SUBJECT TO PERMIT NUMBER (PENDING)
PREVIOUSLY MINED AREA BACKFILLED WITH WASTE AND COVERED

O2 LANDFILL ACTIVE

DISPOSAL

OF WASTE NUMBERIS) 005

8250 CY

PREVIOUSLY MINED AREA BACKFILLED WITH WASTE AND COVERED

Q3 TANK (SURFACE) ACTIVE

STORAGE

OF WASTE NUMBER(S) 004

525 6

TANK FOR COLLECTION OF WASTG DILS PRIOR TO SALE

3

NOTICE OF REGISTRATION CONTINUED)

REGISTRATION NUMBER: 33373

COMPANY NAME: IGN LONE STAR WAREHOUSE CO.

O4 CONTAINER STORAGE AREA STORAGE OF WASTE NUMBER(S) DD1, DD2, DD3

COUNTY OF MORRIS

ACTIVE

OS MISCELLANEOUS STORAGE CONTAINERS STORAGE OF WASTE NUMBER(S) 006

ACTIVE

UNLESS OTHERWISE STATED ABOVE, FACILITIES ARE LOCATED AT HIGHWAY 250, LONE STAR, TEXAS

MISC. CONTAINERS, COLLECTION OF WASTE D6

IV. RECORDS.

A. FOR PURPOSES OF FILING ANNUAL REPORTS PURSUANT TO TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TWO PERTAINING TO INDUSTRIAL SOLID WASTE MANAGEMENT, RECORDS SHOULD BE MAINTAINED FOR STORAGE, PROCESSING AND/OR DISPOSAL OF THE FOLLOWING WASTE(S) LISTED IN PART I:

001 974020 THREADLUBE COMPOUND

002 910100 SOLVENTS, SPENT

003 983540 VARNISH RESIDUE

004 110450 OILS. WASTE

005 270770 MISC. PLANT WASTES

006 280160 GARBAGE

B. PROOF OF RECORDATION IN THE COUNTY DEED RECORDS, AS REQUIRED BY TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TDWR, SHOULD BE SUBMITTED TO THE EXECUTIVE DIRECTOR FOR THE FOLLOWING FACILITIES LISTED IN PART III IN ACCORDANCE WITH THE FOLLOWING SCHEDULES:

NEW FACILITIES - PRIOR TO INITIATION OF DISPOSAL OPERATIONS.

EXISTING FACILITIES - AS SOON AS POSSIBLE, BUT NO LATER THAN SIXTY (60) DAYS FROM THE DATE OF THIS NOTICE, UNLESS PREVIOUSLY SUBMITTED.

FAC NO FACILITY

Texas Water Commission

INTEROFFICE MEMORANDUM

TO

Russ Kimble, Chief, Reports & Management Section, DATE: 4-27-87

Hazardous & Solid Waste Division

THRUX

Luis E. Campos, Hazardous & Solid Waste Coordinator,

Field Operations Division

ATTN:

MICHAEL MOON, Enforcement Coordinator

FROM

Kevin Phillips, District 5

SUBJECT:

T & N Lone Star Warehouse Co., Registration No. 33373

On March 30, 1987, I conducted an industrial solid waste inspection of the subject facility. I was accompanied on the inspection by Mr. Steve Boyd of T & N Lone Star Warehouse Co. (T&N) and Mr. Mark Snyder of Lone Star Steel Co.

T&N is a bonded public warehouse which leases space to oilfield pipe manufacturers and sales companies, oil companies, and drilling companies. Hazardous wastes which entered facility 01 (Landfill) were generated by pipe inspection companies as a result of cleaning lead-based pipe threading compounds from the pipe's threads with-solvent.

T&N was submitted for enforcement on October 8, 1985 by District 5. On August 13, 1986 the Texas Water Commission issued an Agreed Order to T&N in order to resolve violations of the Industrial Solid Waste Rules. In the Agreed Order issued, T&N was to submit a closure plan which addressed ground water monitoring and demonstrate financial assurance for the closure of the waste disposal facility 01 (Landfill).

During the industrial solid waste inspection conducted on 3-30-87, T&N was found to be in violation of the Agreed Order which required ground water monitoring and financial assurance. Since these violations are deficient of the Agreed Order and are Class I violations, the following information is being submitted for review and enforcement by Central Office.

	the following violations are into	•	•
	<u> Violation</u>	Data Source	Permit or Other Requirement
1.	Failure to provide adequate	CEI Investigation	TAC 335.112/40 CFR 265,
	financial assurance for the	Report 3-30-87	Subpart H. Agreed Order
	closure of the landfill.	Napor C C C C	August 13, 1986
2.	Failure to monitor ground water	ti	Agreed Order August 13,
•	at the landfill as required by		1986; TAC 335.116(a)
	the approved closure plan.		
			•
3.	Failure to determine which	11	TAC 335 116/6\/AO CFR

monitoring wells are adequate upgradient and downgradient wells. 265.91

IOM - Tan Lone Star Warehouse Co. April 27, 1987 Page 2

The following violations are interpreted as Class II violations by District 5:

	<u>Violation</u>	Data Source	Permit or Other Requirement
1.		CEI Investigation Report 3-30-87	TAC 335.6
2.	Failure to make a hazardous waste determination on heavy equipment oils, locomotive oils, and vehicle of	nils.	TAC 335.62
. 3.	Failure to label hazardous waste drums with the words "Hazardous Wast	и . :e. ^в	TAC 335.69(a)(3)
4.	Failure to have the date of accumulation on hazardous waste drums in storage.		TAC 335.69(a)(2)
5.	Failure to document the type and amount of each personnel training course.		TAC 335.112/40 CFR 265.16(d)(3)
6.	Failure to document job titles and job descriptions for each person	11	TAC 335.112/40 CFR 265.16(d)(2)
7.	Failure to have fire extinguishers in the container storage area which stores flammable waste.	ıı	TAC 335.112/40 CFR 265.32(c)
8.	T&N should have a contingency plan for this facility, not a contingency plan labeled Lone Star Steel.	"	TAC 335.1.12/40 CFR 265.50
9.	Failure to have a written waste analysis plan.	If	TAC 335.112/40 CFR 265.13
10.	Failure to provide adequate security (fencing) around the hazardous waste landfill.		TAC 335.112/40 CFR 265.14(a)
11.	Failure to post signs around the hazardous waste landfill that state "Danger-Unauthorized Personnel Keep	" Out."	TAC 335.112/40 CFR 265.14(c)

- T&N Lone Star Warehouse Co. 27, 1987

<u>Violation</u>	Data Source	Permit or Other Requirement
	CEI Investigation Report 3-30-87	TAC 335.112/40 CFR 265.15(b)(1)
ction logs should include the and time of inspections.	11	TAC 335.112/40 CFR 265.15(d)
re to post "No Smoking" signs e container storage area.	11	TAC 335.112/40 CFR 265.17(a)
re to maintain a written ting record of the locations mounts of hazardous waste sed of and stored for facility d 04.	.	TAC 335.112/40 CFR 265.73(a)(2)
re to make weekly inspections ste stored at facility 04 ainer storage area).	11	TAC 335.112/40 CFR 265.174
re of the closure plan to ate the amount of waste sed of at facility Ol (landfill).	TAC:335.112/40 CFR 265.112(a)(2)
re to keep records of industria waste treatment, storage, and sal activities.	.1 "	TAC 335.9

ven Phelips by Jaw Phillips, Inspector

John W. Witherspoon, Manager

REF.11

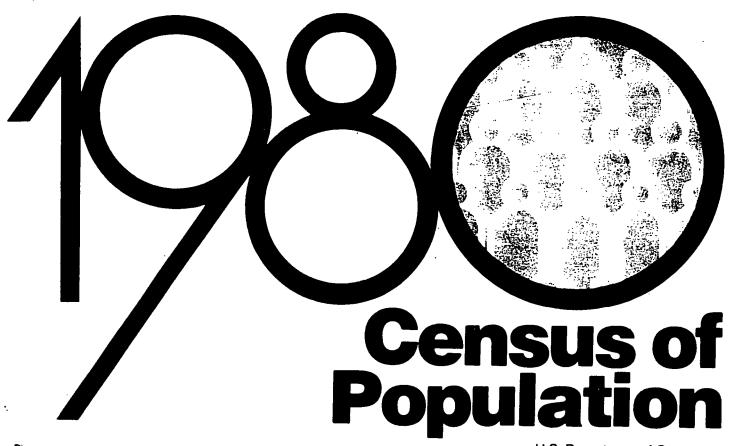
ECOLOGY YENVIRONMENT, INC.

CHARACTERISTICS OF THE POPULATION

PC80-1-A45 Tex.

Number of Inhabitants TEXAS

HA 215.T5 1980



U.S. Department of Commerce BUREAU OF THE CENSUS

Table 4. Population of County Subdivisions: 1960 to 1980—Con.

[Total population of a place in two or more country subdivisions appears in table 5. Counts relate to country subdivisions and places as defined at each census. For meaning of symbols, see introduction]

#	symbols, see int	roduction]					
County Subdivisions	1980	1970	1960	County Subdivisions	1980	1970	1960
Madison County—Con.				Montgomery County—Con.			
reach Zuich division — Con.		2.		Southeast Montgomery division—Con.	18 034	11 969	9 192
Normangee fown (pt.)	56	34	52	Conroe city 151 Cut and Shoot town 151 Houston city (pt.) 151	568	'451	7 172
Marion County	10 360 5 213	8 517	8 049	Houston city (pt.) 131	19 167	9	
Marion East division	2 643	5 154 2 866	5 576 3 0 82	Kingwood (CDP) (pt.) Oak Ridge North town ¹⁵¹	2 504		
Marion West division	5 147	3 363	2 473	Patton village ¹⁵¹ Porter Heights (CDP)	1 050	667	
Martin County 141	4 684	4 774	5 068	Roman Forest form ¹⁵¹ Shenandoah city ¹⁸¹	929		
Stanton city ¹⁴¹	3 304 2 314	3 154 1 2 117	3 380 2 228	Splendorg city	1 793 721	194	::: }
term-Lenorth division	1 380	1 620	1 688	The Woodlands (CDP)	8 443		11.1
Adusty dity (pt.)	92	108		Woodbranch village 181	720 351	378	
Mason County 143	3 683	3 356	3 780				
Moson East division	3 005 2 153	2 679 1 806	1 910	Willis division Panoramo Village city ¹⁵¹	8 291 1 186		
Mason West division	678	677		Willis city ¹⁵¹	1 674	1 577	975
Mason city (pt.)142	-			Moore County 152	16 575	14 060	14 773
Matagorda County ¹⁴³	37 828	27 913	25 744	Dumos division	14 389 898 i	11 873 644	11 913
Boy City city ¹⁴³	24 043 17 837	13 445	11 656	Cactus city	12 194	9 771	8 477
Van Vleck (CDP)	1 157 3 292	1 051		Fritch city (pt.)Sunray division	2 186 1	2 187	2 860
Matagordo-Sargent division	5 796	4 544	4 704	Sunray city	1 952	1 854	1 967
Polistics town ¹ 41 Tidehaven division	4 667 4 697	3 642 2 778	3 676 2 984	Morris County 153	14 629	12 310	12 576
Markham (CDP)	1 554	2 776	2 70-4	Daingerfield division	9 762	8 009	8 179
Mayerick County ¹⁴⁴	31 398	18 093	14 508	Daingerfield town ¹⁵³ Lone Star town ¹⁵³	3 030 2 036	2 630 1 760	3 133 1 513
Earle Pass division	30 047			Naples division	4 867	4 301	4 397
Eagle Pass city ¹⁴⁴	21 407 1 351	15 364	12 094	Naples town ¹⁵³	1 908 960	1 726 898	1 692 854
	1						1
Medina County145	23 164 4 439	20 249 3 730	18 904 3 386	Motey County 164	1 950 385	2 178	2 870
Controville city	1 821	1 893	1 508	Matador South division	1 565	1 684	1 217
La Coste city int	9 672	768 8 074	7 287	Matador town ¹⁵⁴ Roaring Springs town	1 052 315	308	398
Design city 145	3 756 359	3 311	2 522		46 786	36 362	28 046
Lytte city (pt.) ¹⁴⁵	1 264	(NA) 1 296	• • •	Nacogdoches County ¹⁵⁶	3 375	2 343	2 349
D'Hanis division	1 199 7 854		•••	Chireno city ¹⁶⁵ Cushing-Dougloss division	371 3 433	308 2 839	3 073
Hondo city ¹⁴⁸	6 057	5 487	4 992	Cushing city ¹¹⁸ Cushing city ¹¹⁸ Garrison division	518	396	388
Menard County ¹⁴⁶	2 346	2 646	2 964	Garrison division	2 552 1 059	2 120	1 941 951
Menard East division	249		2 /0-	Nacoadaches division	37 426		:::
Menard West division	2 097 1 697	1 740	1 914	Appleby city	453 27 149	280 22 544	12 674
				•	· .		Į.
Midland County ¹⁴⁷	82 636 71 011	65 433	67 717	Novarro County ¹⁶	35 323 2 829	31 150 2 238	34 423 2 669
Midland city (pt.)147	69 844	59 463	62 625	Blooming Grove town 156	823	740	725
Midland Rural division	11 625 i 681		•••	Frost town	564 25 790	548	508
Milam County 148	22 732			Angus town 184	244 192	149	178
Buckholts division	1 050	20 028 1 019	22 263 1 388	Barry city	21 712	19 972	20 344
Budchotts town ¹⁴⁴ Burlington division	388 1 276	1 530	2 435	Emhouse fown	197	158	170
Corneron division	6 844	6 557	6 844	Mustang town 156 Retreat town	255	263	:::
Comeron city ¹⁴⁸	5 721 907	5 546 902	5 640 1 250	Dowson division	1 871	1 775	2 213
Gause-Milano division	2 173	1 881	2 023	Dawson town	747	848	911
Milano town ¹⁴⁸	468 8 197	6 166	6 009	Kerens division	2 896 343	::: 1	:::
Rockdale city ¹⁴⁸	5 611	4 655	4 481	Kerens city ¹⁵⁶	1 582	1 446	1 123
Thorndale division	2 285	1 973	2 314	Rice division	1 334	938	1 306
Thorndale city (pt.)149	1 296	1 031	995	Rice city (pt.)156	432 603	284 620	295 969
Mills County 149	4 477	4 212	4 467	Richland division	260	309	287
Goldthwaite division	2 568 1 783	2 537 1 693	2 246 1 383	Streetman town (pt.)	19	15	11
Multin-Priddy division	1 318	1 139	1 495	Newton County ¹¹⁷	13 254	11 657	10 372
Multin town	213 591	203 536	219 726	Surturville division	1 872 2 913	2 460	2 116
				Deweyville division	3 160	2 124	1 485
Mitchell County Colorado City division	9 088 6 558	9 073 6 440	11 255 8 193	Deweyville (CDP)	1 171 5 309		::: }
Colorado City city	5 405	5 227	6 457	Newton city ¹⁵⁷	1 620	1 529	1 233
Lorgine town	1 632 929	1 738 700	2 013 837	Nolan County ¹⁸⁸	17 359	16 220	18 963
Westbrook division	898	895	1 049	Notan County ¹⁶⁴	744	798	970
Westbrook city	298	298	214	Blackwell town (pt.)Roscoe division	265 2 684	266 2 551	302 2 944
Montague County ¹¹⁰	17.410 9.503	15 326 8 150	14 893	Roscoe city ¹⁶⁸	1 628 10	1 580	1 490
Bowie city ¹⁵⁰	5 610	5 185	7 024 4 566	Sweetwater city (pt.)	13 931		:::
Montague Forestburg division	1 300 4 670	1 170 4 375	1 268 4 889	Sweetwater division Sweetwater city (pr.) 138	12 232	12 020	13 914
Nacona city ¹⁴⁰	2 992	2 871	3 127	Nueces County 184	268 215	237 544	221 573
St. Jo division	1 937 1 1 071	1 631 1 054	1 712 977	Bishop division	6 740 3 706	5 905 3 466	6 854 3 722
·]]		Bishop town ¹⁵⁹ North San Pedro (CDP) (pt.)	842	(NA)	3 /22
Montgomery County 181 Magnolia division	128 487 12 217	49 479	26 839	Corpus Christi division	236 437 231 875	204 525	167 690
Magnetic town 151	867	'લાંક		Corpus Christi city (pt.) ¹⁵⁹ Portland city (pt.) ¹⁵⁹	-		10, 0,0
Stagecoach town ¹⁵¹ Montgamery division	8 222			Corpus Christi West division	6 796 934	3 216 742	867
Montgomery city	258	216		Agua Dulce cityCorpus Christi city (pt.)159	40 (
Southeast Managamery division Chateau Woods village ¹⁵¹	99 757 590		•••	North San Pedro (CDP) (pt.)San Patricio city (pt.)	1 711	(NA)	:::
•			• • • • • • • • • • • • • • • • • • • •		• • •	••••	

Table 4. Population of County Subdivisions: 1960 to 1980—Con.

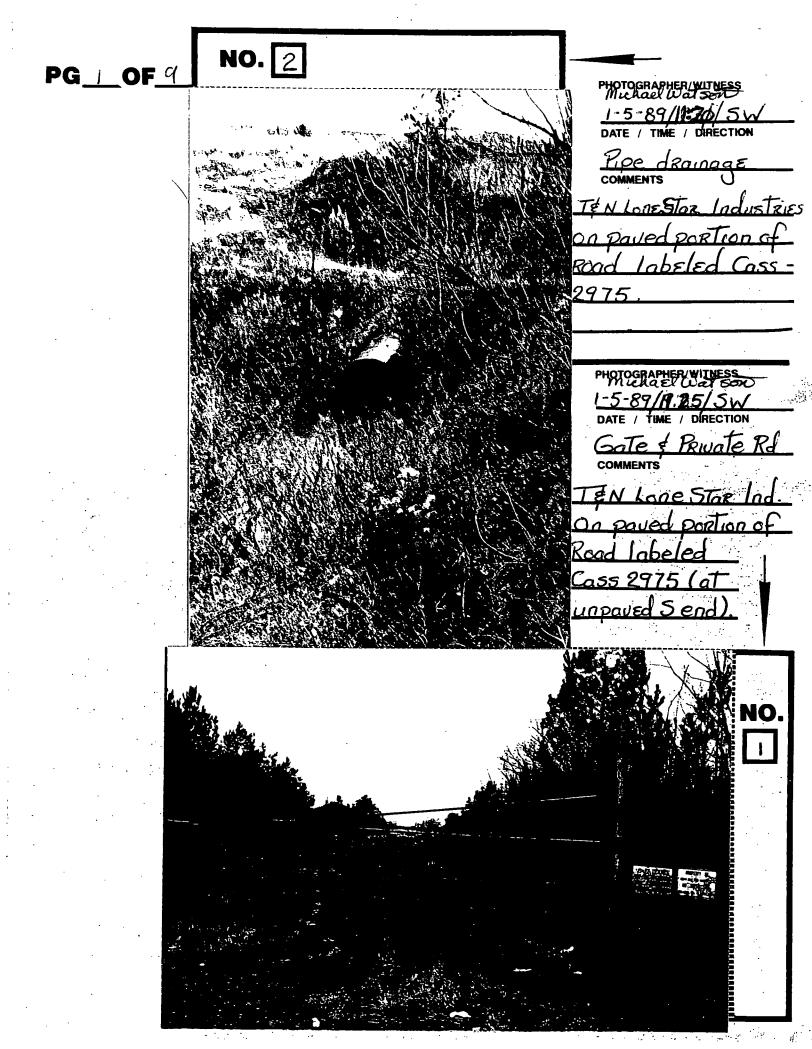
(Total population of a place in two or more county subdivisions appears in table 5. Counts relate to county subdivisions and places as defined at each census. For meaning of symbols, see [ntroduction]

	symbols, see Int	mbols, see Introduction)					
County Subdivisions	1980	1970	1960	County Subdivisions	1980	1970	1960
Bowie County—Con.				Calhoun County ¹⁶	19 574	17 831	16 592
New Boston division	6 910	6 327	5 167	Kamey—Six Mile division	883	726 2 004	655 1 886
New Boston town (pt.)1/	4 628 49 544	4 034 44 895	2 773 30 218	Point Comfort city24	1 125	1 446	1 453
Leary city (pt.)	44	(NA) ¹		Part Lavaca division	13 394	12 142 10 491	10 715 (8 864 (
Nash city ¹⁷ Texarkana city (pt.) ¹⁷	2 022 31 262	1 961 30 497	1 124 30 218	Port Lavaca city ²⁶	10 911 3 498	2 959	3 336
Wake Village city 17	3 865	2 408	1 140	Port O'Connor (CDP)	1 031		,., [
Brazaria County ¹⁸	169 587	108 312	76 204	Seadrift city26	1 277	1 092	1 082
Alvin-Pearland division	57 576	108 312	/6 204	Callahan County ²⁷	10 992	8 205	7 929
Alvin city ¹⁸	16 515	10 671	5 643	Baird division	2 379 1 696	2 151 1 538	2 405 1 633
Brookside Village city 4	1 453 i 771	1 507 1 650	560	Baird city ³ Putnam town	116	134	203
lowa Colomy village (pt.)10	344			Clyde division	6 511	4 115	3 376
Liverpool village ¹⁸	602	319		Clyde town ²⁷ Cross Plains division	2 562 2 102	1 635	1 116 2 148
Manvel city ¹⁸ Pearland city (pt.) ¹⁸	3 549 12 461	106 6 444	1 497	Cross Plains town	1 240	1 192	1 168
Angleton-Rosharon division	31 942					140.040	151 000
Angleton city ¹⁸	13 929 353	9 906 228	7 312	Cameron County ²⁶	209 727 101 828	140 368	151 098
Bonney village 16	94	220	:::	Brownsville city ²⁰	84 997	52 522	48 040
Danbury city ¹⁴	1 357	807		East Cameron division	7 994		
lowa Colony village (pt.) ¹⁶ Lake Jackson city (pt.) ¹⁸	241	• • •		Bayview town (pt.) ⁷⁸ Laguna Vista village	148 632	(NA) 287	(NA) 141
	1 1			Port Isabel city ²⁸	3 769	3 067	3 575
Brazoria-West Columbia division	28 036	18 339	:	Port Isabel city ²⁸ South Padre Island town ²⁸	791		
Brazorio city ¹⁸	3 025 3 538	1 681 3 191	1 291 3 087	Harlingen-San Benito division	89 070 488	689	605
West Columbia city ¹⁴	4 109	3 335	2 947	Hartingen city ²⁸	43 543	33 503	41 207
Wild Peach Village (CDP)	2 385			La Feris city ²⁸	3 495	2 642 902	3 047 1 066
Brazosport division	52 033 9 577	38 817 6 023	4 501	Cambes town ²³ Harlingen city ²³ La Feria city ²³ Primero town ²³ San Benito city ²³	1 380 17 988	15 176	16 422
Freeport aty"	13 444	11 997	11 619	Santa Rosa town	1 889	1 466	1 572
Jones Creek village ¹⁸ Lake Jackson city (pt.) ¹⁸ London	2 634 19 100	1 763	9 651	Las Europa d'accepte di érica	6 125	-	ĺ
Oyster Creek village*	1 473	13 376	7 631	Los Fresnos-Laureles division	143	(NA)	· · · · · ·
Quintana town 16	30	'58		Los fresnos city ³⁸	2 173	1 297	1 289
Richwood city ¹⁸ Surfside Beach village ¹⁸	2 591 577	1 452	649	Rio Hondo division	4 710 1 673	1 167	1 344
SOLIZION DESCLI ANNARE	i "'' i	• • • •		AND HORIZO IOWII	1	ì	1
Brozos County ¹⁴	93 588	57 978	44 895	Camp County ²⁴	9 275	8 005	7 849
Bryan-College Station division	79 211 42 992	(NA)	(NA)	Leesburg-Newsome division	1 041 8 234	869 7 136	796 7 053
Bryan city (pt.)19 College Station city (pt.)19	36 188	(NA)	(NA)	Pittsburg city ²⁰	4 245	3 844	3 796
Northeast Brazos division	4 286	•••	2	Rocky Mound town ²¹	123	••••	• •••
Bryon city (pt.)16	686 5 477	(NA)	(NA)	Carson County ⁵⁰	6 672	6 358	7 781
Bryan city (pt.)19	437	(NA)	(NA)	Panhandle division	3 164]	
Bryan city (pt.) ¹⁴ College Station city (pt.) ¹⁹	928	(NA)	(NA)	Ponhandle town ³⁰	2 226	2 141	1 958
West Brazos division Bryan city (pt.)16	4 614 222	(NA)	(NÄ)	White Deer-Groom division	3 508 736	äöä	679
College Station city (pt.)14	156	(NA)	(NA)	Skellytown town	899	716	967
				White Deer town	1 210	1 092 j	1 057
Brewster County ²⁰	7 573 6 859	7 780	6 434	Cass County ²¹	29 430	24 133	23 496
Alpine city ²⁰	5 465	5 971	4 740	Attento division	13 969		
Marathon division	714	•••		Atlanta city ⁴¹	6 272 419	5 007 231	4 076 383
Briscoe County ²¹	2 579	2 794	3 577	Bloomburg town	249		
Quitoque division	971	910	1 147	Domino town ⁴¹ Queen Gity city ⁴¹	1 748	1 227	1 081
Quitaque city ²¹	1 608	601 1 884	586 2 430	Bivins-McLeod division	1 310 5 329	1 103 4 160	4 497
Silverton city	918	1 026	1 098	Avinger town	671	642	730
A				Hughes Sorings city	2 196	1 701	1 613
Brooks County	8 428 888	8 005 769	8 609 992	Linden division	5 841 2 443	5 301 2 264	5 362 1 832
Falfurrias division	7 540	7 236	7 617	magi diy	_		
Falfurrias city	6 103	6 355	6 515	Manietto-Dauglassville division	2 981	2 722	3 095 172
Brown County ²³	33 057	25 A77	24 728	Douglassville town	228 169	282 177	!//*
Bangs division	5 074	25 877	24 /28		1 1		
Blanket division	1 716	1 214	967	Costro County ¹³	10 556 1 7 071	10 394	8 923
Blanket town	2 028 388	346	320	Dimmitt North division	5 019	4 327	2 935
Brownwood division	24 916			Nazareth city (pt.)27	272		
Brownwood city ²² Early city ²²	19 396 2 313	17 368	16 974	Dimmitt South division	3 485 1 008	905	577
May division	1 039	1 097 981	819 1 199	Hart city Nazareth city (pt.) ²³	27		
Burleson County ²³	12 313	9 999	11 177	Chambers County ¹³	18 538 5 905	12 187 4 546	10 379 4 587
Caldwell city ¹³	6 083 2 953	4 701 2 308	5 086 2 204	Anahuac division ¹³	1 840	1 881	1 985
Cooks Point division	977	986	255	Sectorock city (pt.)13	[-])
Old River division	2 123 408	2 170	2 558	Shoreocres city (pt.)33	7 700	3 609	2 497
Somerville division	3 130	2 142	2 278	Mont Belvieu division Baytown city (pt.) ²²	6		1 7//
Somerville city	1 814	1 250	î î <i>77</i>	Beach City city**	977	363	[
Burnet County ²⁴	17 803	11 420	9 265	Cove town ¹³ Mont Behieu city ¹³	645 1 730	1 144	:::1
Bertram division	1 443	1 175	1 205	Old River-Winfree city ¹³	1 058		
Bertram city ¹⁴	824	.,.		•	4 022	4 020	3 295
Briggs division	727 7 154	626 5 027	902 4 135	Winnie-Stowell divisionStowell (CDP)	4 933 1 498	4 032	3 273
Burnet town ²⁴	3 410	2 864	2 214	Winnie (CDP)	2 496	1 543	1 114
Marble Falls division	8 479	4 592	3 023		1 40 .07	33 440	22 120
Granite Shoals city ²⁴	634 3 252	342	2 161	Cherokee County ³⁴	38 127 3 536	32 008	33 120
	3 434	. 2 209	Z 101	Alto town	1 203	1 045	869
Caldwell County ²⁸	23 637	21 178	17 222	Jacksonville division	18 091		
Lockhart division	11 564 7 953	9 100 6 489	8 762 6 084	Gallatin city (pt.) ²⁴	12 264	9 734	9 590
Luling division	6 526	6 025	5 903	Jacksonville city** Mount Selman division	2 098		l ł
Luling city28	5 039	4 719	4 412	Bullard town (pt.)34	3 100	27	16
Martindale division	5 547	6 053	2 557	New Summerfield division	3 100 i 319 i	344	:::)
			1	New Summerfield city	. 317 [

See faatnotes at end of table.

RECORD OF COMMUNICATION	(Record of Item Checked Below) X_Phone CallDiscussionFie ConferenceOther(Specify)	
TO: Michael Watson, Region VIFIT FIT Chemist Www.azl Watson	From: Dorinda Sullivan, Texas Parks & Wildlife, Endangered Species	Date: 1-16-89 Time: 9:15 am
SUBJECT: Sensite Enviro	onments, Lone Star	
SUMMARY OF COMMUNICATION	1 .	· · · · · · · · · · · · · · · · · · ·
Trillium texanum - a pla	ant which occurs in seepage areas.	
Water Oak/Willow Oak - r	native trees in symbiosis.	
Mentioned Daingerfield S	State Park.	
	,	
		· · · · · · · · · · · · · · · · · · ·
		
	· .	
		
CONCLUCTONS ACTION TAVI	ZN OD DEGUIDED	
CONCLUSIONS, ACTION TAKE		
Says she will mail the m	maps to me today.	
:		
INFORMATION COPIES	···	

EPA FORM 1300-6 (7-72) Replaces EPA HQ Form 5300-3 which may be used until Supply is Exhausted.



Pg 2 of 9

Photographer / Witness

Suchas Walson

Date / Time / Direction

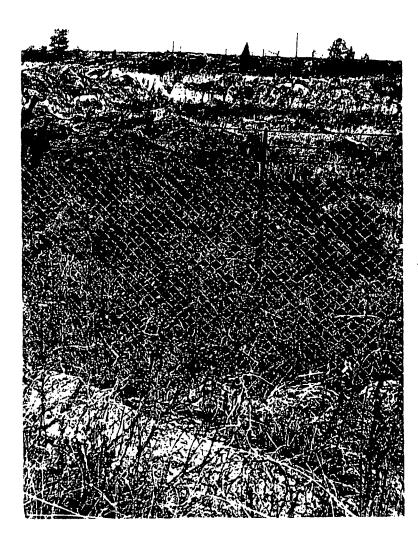
1-5-89/A:20/SW

Comments: TAN Lone Star Ind.

3 # 4 Paktof Scan,

(5 Frames) Fram Stan Non

Cass 2975



1930F9

FRAME #5

Photographer / 11 8

| Mehael Watson

Date / Time / Direction

1-5-89/11:20/5W

Comments: TEN LONE STOR

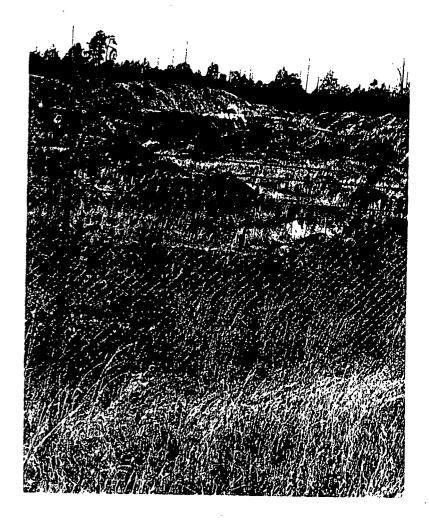
Workshouse Part of Scon

(5 FROMES) FROM STONOW

±#5 Cass 2975

Frame #6





PHOTOGRAPHER/WITNESS

Lakafluation

DATE / TIME / DIRECTION

1-5-89/19:20/50) COMMENTS

To N Lone Store Woreho 5-65 in Scan Fram South To North

PHOTOGRAPHER/WITNESS

CDATE / TIME / DIRECTION

1-5-89/14:00/5w COMMENTS

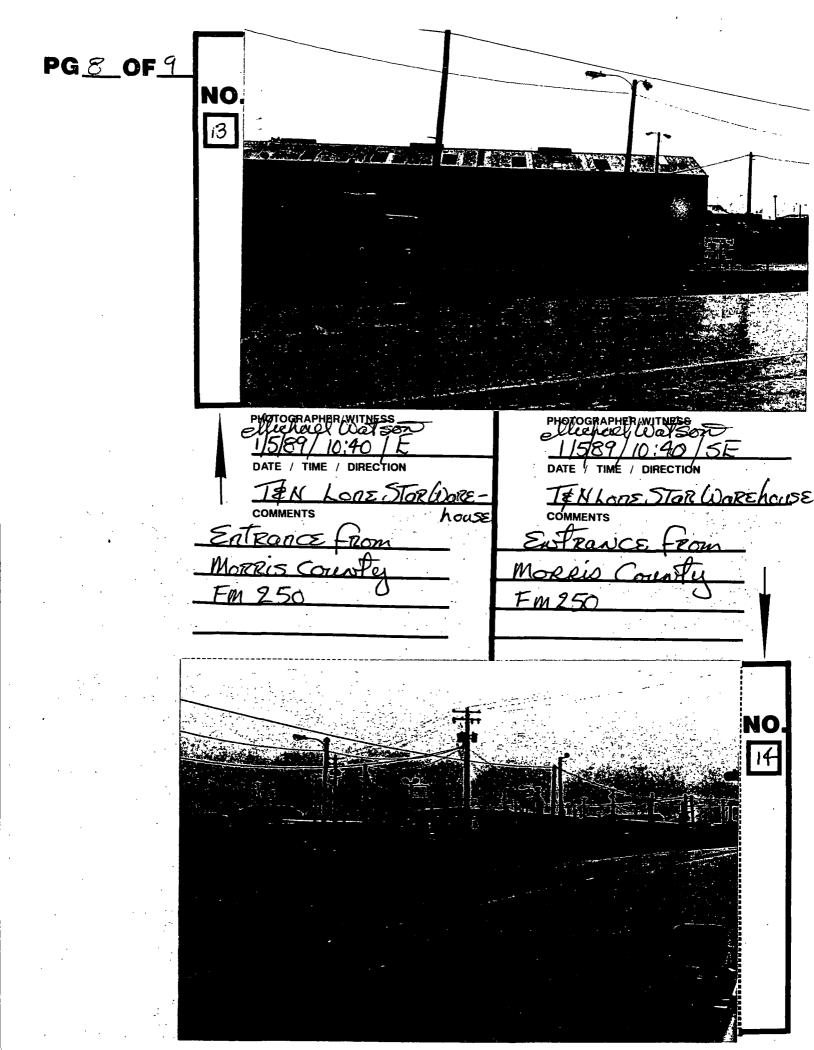
Suspected location of Piton property

STOR WOREhous



PG <u>5</u> OF <u>9</u>	NO. 9A		
			PHOTOGRAPHER/WITNESS
;			DATE / TIME / DIRECTION
			1/5/89/10:50/NW comments
!			TEN Lone STOR WORELOWSE
			NEND OF DROPERTY
			on un-named Rd
	the second secon		Showing Drainage
			Ditch
			PHOTOGRAPHER/WITNESS
			COATE / TIME / DIRECTION
			COMMENTS
-			
-			
			NO.
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		*	
	÷1144114111111111111111111111111111111		

PG 6 OF 9 CAE STOR PHOTOGRAPHER/WITNESS NO.



PG 9 OF 9 NO. 15 PHOTOGRAPHER/WITNESS DATE / TIME / DIRECTION COMMENTS PHOTOGRAPHER/WITNESS



Please note that the PreScore report for this site is located in the files in the HRS room. Please see one of the HRS coordinators for more information.
SITE NAME Dexus and Northern Lone Star Warehouse
TDD # <u>F06-8811-30</u>
PAN FTX08/6PAA
CERCLID